

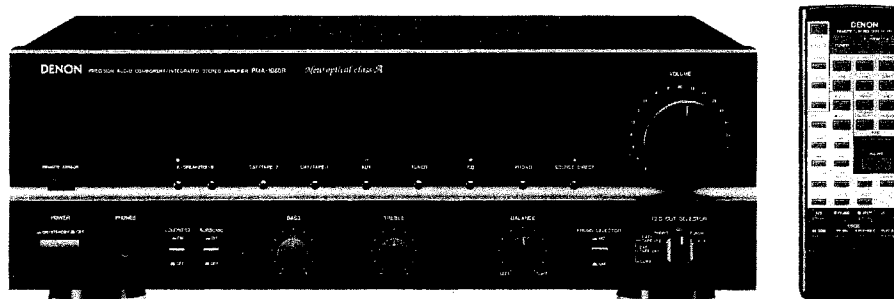
DENON

Hi-Fi Integrated Stereo Amplifier

SERVICE MANUAL

MODEL PMA-1080R

INTEGRATED STEREO AMPLIFIER



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NIPPON COLUMBIA CO., LTD.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

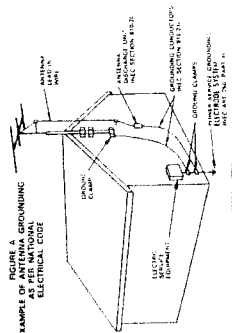


The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

SAFETY INSTRUCTIONS

1. Read Instructions – All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions – The safety and operating instructions should be retained for future reference.
3. Head Warnings – All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow Instructions – All operating and use instructions should be followed.
5. Water and Moisture – The appliance should not be used near water – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.
6. Carts and Stands – The appliance should be used only with a cart or stand that is recommended by the manufacturer.
- 6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
7. Wall or Ceiling Mounting – The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. Ventilation – The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings. Or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. Heat – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. Power Sources – The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. Grounding or Polarization – Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.
12. Power-Cord Protection – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them; paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
13. Cleaning – The appliance should be cleaned only as recommended by the manufacturer.
14. Power Lines – An outdoor antenna should be located away from power lines.
15. Outdoor Antenna Grounding – If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.
16. Noruse Periods – The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
17. Object and Liquid Entry – Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
18. Damage Requiring Service – The appliance should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
19. Servicing – The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.



WIT: ANTENNA-INSTALLATION CODE

• **FOR U.S.A. & CANADA MODEL ONLY**

CAUTION

TO PREVENT ELECTRIC SHOCK DO NOT USE THIS IPOLARIZED PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

• **NUR FÜR EUROPÄISCHE MODELLE**

Konformitätserklärung

Die DENON Electronic GmbH
Heikestraße 32
4030 Ratingen 1

Erklärt als Hersteller/Importeur, daß das in dieser Bedienungsanleitung beschriebene Gerät den Technischen Vorschriften für Ton- und Fernseh-Rundfunkempfänger nach der Amtsblattverfügung 866/1986 (Amtsblatt des Bundesministers für Post und Telekommunikation vom 31. 8. 1986) entspricht.

• **FOR UNITED KINGDOM MODEL ONLY**

CONNECTING THE MAINS PLUG:

This unit operates from a 240V ac 50 Hz mains supply.

Fit a proper mains plug to the mains lead of this equipment. If a 13 amp (BS1363) plug is used, a 5 amp fuse must be fitted. The 13 amp fuse supplied in a new plug must NOT be used. If any other type of plug is used, a 5 amp fuse must be fitted either in the plug or adaptor or at the distribution board.

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

• **POUR LE MODELE CANADIEN UNIQUEMENT**

ATTENTION

POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

• **FÜR U.S.A. & CANADA MODEL ONLY**

CAUTION

TO PREVENT ELECTRIC SHOCK DO NOT USE THIS IPOLARIZED PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

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IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

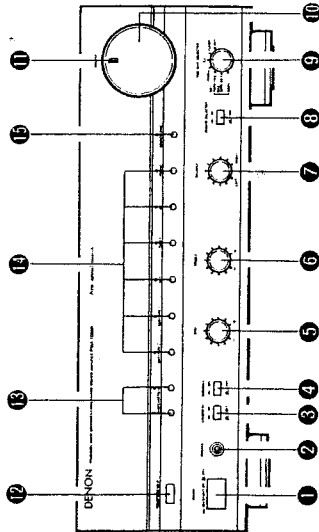
The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured blue.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured red.

DO NOT MAKE ANY CONNECTION TO THE LARGER PIN MARKED WITH THE LETTER E OR BY THE SYMBOL ⚡ OR COLOURED GREEN OR GREEN AND YELLOW

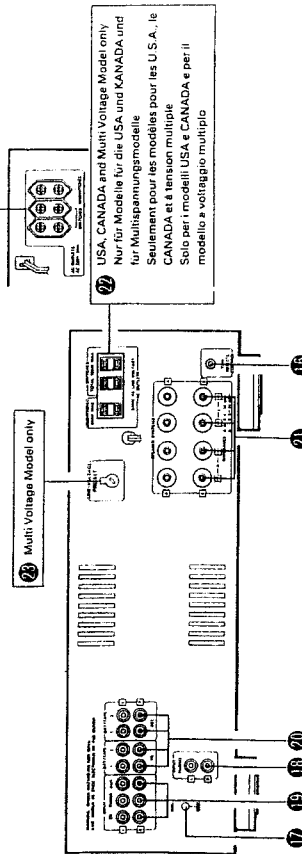
Disconnect the mains plug from the supply socket when not in use.

FRONT PANEL
FRONTPLATTE
PANNEAU AVANT
PANNELLO ANTERIORE



REAR PANEL
RÜCKWAND
PANNEAU ARRIERE
PANNELLO POSTERIORE

20 Europe model only (except for U.K.)
Nur für Europa-Modelle (mit Ausnahme Großbritannien)
Seulement pour le modèle européen (à l'exception du Royaume-Uni)
Solo per il modello destinato all'Europa (eccetto il Regno Unito)



23 LINE VOLTAGE (voltage select switch) . . . For Multi-voltage mode . . .
The desired voltage may be set with the VOLTAGE SELECTOR KNOB on the back panel using the screw driver. Do not turn the knob with excessive force. It may be damaged.
If the voltage select switch does not turn smoothly, see qualified serviceman.

24 TAPE/REMOTE CONTROL	25 GND	26 PHONO	27 CD, TUNER, AUX	28 DAT/TAPE-1, DAT/TAPE-2	29 SPEAKERS
Tape deck Remote control jack	GND	Phono Input Terminals (Phono)	Input Terminals (CD, TUNER, AUX)	Playback and Recording Terminals (Playback Terminals)	Speaker Terminals
Tastatürk Ferbedenme- noktası	GND	Schallklemmsäulen- eingangsklemmen (Phono)	Eingangsklemmen (CD, TUNER, AUX)	Tonband-En/Ausgangs- klemmen (Aufnahme- klemmen)	Lautsprecher- klemmen
Prise de télécommande de magnéto cassette	GND	Bornes d'entrée (phono)	Bornes d'entrée (CD, TUNER, AUX)	Bornes de lecture et d'enregistrement (Bornes de lecture- enregistrement)	Bornes de haut- parleur
TERMINAL DI COMANDO A DISTANZA DELLA PARRA	GND	Terminali di ingresso Phono	Terminali di ingresso (CD, TUNER, AUX)	Terminali di riproduzione registrazione (Terminali di riproduzione- registrazione)	Terminali degli altoparlanti

Fig. 1
Abb. 1

CONNECTIONS
ANSCHLÜSSE
CONNEXIONS
CONNESSIONI

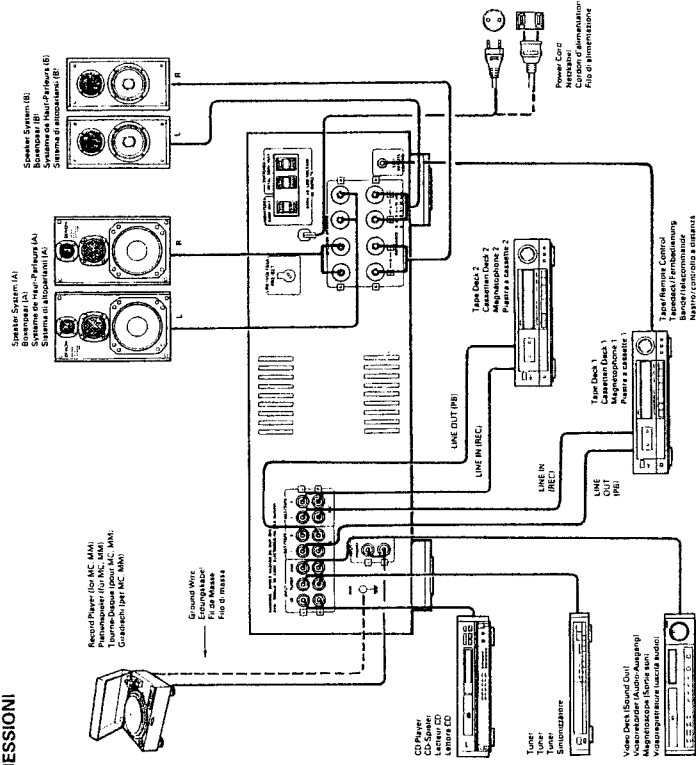


Fig. 2
Abb. 2

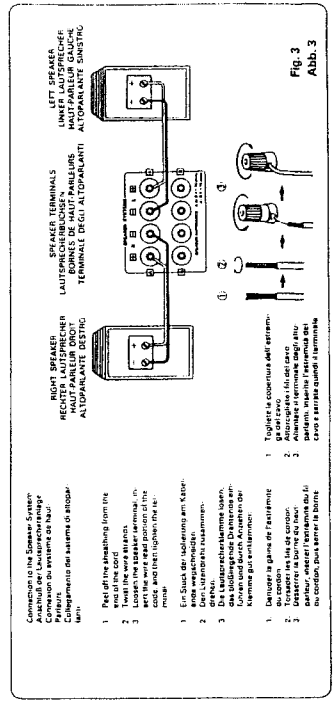


Fig. 3
Abb. 3

DESIGNATIONS AND FUNCTIONS OF PANEL CONTROLS

- 1 POWER (Power Switch)**
When the power switch is turned ON (—), the volume LED lights.

When the power switch is turned ON, power is supplied to the unit. It takes a few seconds after the power is turned on for the unit to warm up. This is due to the built-in muting circuit that eliminates noise during the on/off operation.

- 2 PHONES (Headphone Jack)**

This jack is used to plug in the headphones.

- 3 LOUDNESS (Loudness Switch)**

When the volume is low, it is difficult for the human ear to clearly distinguish notes in the low and high frequency ranges. The loudness switch allows a simple "one-touch" correction of this difficulty. Press the loudness switch ON (—) when listening to music at a low volume. The low notes and high notes will be corrected to produce a natural sound.

- 4 SUBSONIC (Subsonic Filter Switch)**

Use to prevent subsonic speaker vibration due to vibration of the player motor or a warped record, etc., when playing a connected player.

- 5 BASS (Bass Control)**

This knob is used to control the bass quality of the sound. When the knob is set at the center position, the frequency characteristics are flattened in the range below 1000 Hz. The bass is emphasized as the knob is moved off center to the right ($\curvearrowright$), and reduced as it is moved to the left ($\curvearrowleft$). When volume control **6** is set to the right of the center position, the effect of the other controls is reduced.

- 6 TREBLE (Treble Control)**

This knob is used to control the treble quality of the sound. When the knob is set at the center position, the frequency characteristics are flattened in the range above 1000 Hz. The treble is emphasized as the knob is moved off center to the right ($\curvearrowright$), and reduced as it is moved to the left ($\curvearrowleft$). When volume control **6** is set to the right of the center position, the effect of the other controls is reduced.

- 7 BALANCE (Balance Control)**

This knob is used to adjust the balance between the left and right channels. When it is set to the center position, the amplitude of the amplifier is equal on both sides. If there is a difference in the left and right channel output voltages for a cartridge, move the knob to the left and right to adjust it. If the volume on the right side is too low, turn the knob to the right ($\curvearrowright$). If the volume on the left side is too low, turn the knob to the left ($\curvearrowleft$). This will achieve an even balance on the left and right sides.

- 8 PHONO SELECTOR (Cartridge Selection Switch)**

This switch is set according to the type of player cartridge to be used.

- MC (—) : Used when an MC (moving-coil) cartridge with an output of less than 0.5 mV is used.
- MM (—) : Used when an MM (moving-magnet) cartridge with an output of 2 mV or more is used.

- 9 REC OUT SELECTOR (Rec Out Select Switch)**
Use this switch to select the recording component.

• PHONO: Used to recording from the turntable.

• CD: Used to recording from the CD player.

• TUNER: Used to recording from the tuner.

• AUX: Connected to the AUX terminal.

• DAT/TAPE-1 $\blacktriangleright$ 2: Used to recording from the tape deck connected to the DAT/TAPE-1 jacks.

• DAT/TAPE-2 $\blacktriangleright$ 1: Used to recording from the tape deck connected to the DAT/TAPE-2 jacks.

- 10 VOLUME (Volume Control)**

This knob controls the overall volume level. Turn the knob to the right ($\curvearrowright$) to raise the volume and to the left ($\curvearrowleft$) to lower it.

- 11 Volume LED**

This LED flashes while the muting circuit is activated when the power is turned on and when muting is turned on from the remote control unit, and remains lit (without flashing) while the power is on.

- 12 REMOTE SENSOR (Remote Control Sensor)**

This sensor receives the infra-red light transmitted from the wireless remote control unit. For remote control, point the wireless remote control unit towards the sensor.

- 13 SPEAKERS (Speaker Selection Switch)**

The PMA-1080R can be connected to two speaker systems: speaker system A and speaker system B.

When A is pressed, its LED lights and the speaker system connected to speaker output terminals A operates. When A is pressed again, its LED goes out and the speaker system A can not operate. When B is pressed, its LED lights and the speaker system connected to speaker output terminals B operates. When B is pressed again, its LED goes out and the speaker system B can not operate.

- 14 INPUT SELECTOR (Input Select Switch)**

Use these to select the program source.

When the button for the desired program source is selected, its LED lights. One program source only can be selected at a time, as follows:

- PHONO: Use this position when using the record player connected to the PHONO jacks.

Use the PHONO SELECTOR **8** to switch the sensitivity to correspond to the cartridge type being used.

Used to listen a compact disc player or other component that is connected to the CD terminal.

Used to play a component such as an FM/AM tuner or a TV tuner that is connected to the TUNER terminal.

Used to play a component such as a Hi Fi video player, TV tuner, 8-track tape player or tape deck that is connected to the AUX terminal.

DAT/TAPE-1: Use this Position when using the tape deck, etc., connected to the DAT/TAPE-1 jacks.

DAT/TAPE-2: Use this Position when using the tape deck, etc., connected to the DAT/TAPE-2 jacks.

- 15 SOURCE DIRECT (Source Direct Switch)**

Set this switch to ON will cause the input signal to by-pass the LOUDNESS **3**, SUBSONIC **4**, BASS **5**, TREBLE **6**, BALANCE **7** circuits regardless of the settings of these controls and be input directly to the VOLUME **10** control to prevent loss of sound quality. The SOURCE DIRECT indicator will light up at this time.

- 16 TAPE/REMOTE CONTROL (Tape Deck Remote Control Jack): Rear Panel Side**

Remote control of a connected DENON cassette deck is enabled by connecting the tape deck remote control lead to this jack. The jack is a mini-jack designed to accept a 3.5 mm plug.

NOTE: Do not connect headphones or a microphone to this jack. Use this jack only to connect a DENON cassette deck with a remote control jack (wired).

- 22 AC OUTLETS: Rear Panel Side**

- For U.S.A., Canada and Multi-voltage models. AC outlets are used for connecting amplifier component units, such as tuner, turntable, tape deck, etc.
- SWITCHED (Total capacity: 120 W): These outlets are turned ON/OFF when main power switch and POWER button on the Remote Control Unit is turned on/off.
- UNSWITCHED (Capacity: 240 W): This outlet is always ON whether power switch is on or OFF.

- For Europe model, except the U.K. and Australia models. AC outlets are used for connecting amplifier component units, such as tuner, turntable, tape deck, etc.
- SWITCHED (Total capacity: 100 W): These outlets are turned ON/OFF when main power switch and POWER button on the Remote Control Unit is turned on/off.
- UNSWITCHED (Capacity: 100 W): This outlet is always ON whether power switch is on or OFF.

OPERATION

- 1. CHECKING CONNECTIONS**

- Make sure that all the connections are proper by referring to the back panel. (Fig. 1, 2, 3)

- Check the polarity (positive and negative) of connections, and the directivity of stereo separation (right cord to right channel terminal, and left cord to left channel terminal).
- Check the directivity of pin cord connection.

- 2. SETTING OF EACH KNOB**

- Turn the volume control knob counterclockwise, to "0".
- Set the rotary knob to "flat".
- Set LOUDNESS, SUBSONIC to "OFF" (—).

After checking the above items, turn on the power.

Turn the SOURCE DIRECT button off (the source direct indicator turns off) after turning on the power.

PLAYING A RECORD

- Set the INPUT SELECTOR switch to "PHONO".
- Operate the turntable and play the record.
- Turn the volume and tone controls to yield an appropriate volume and sound quality.

PLAYBACK OF CD PLAYER

- Set the INPUT SELECTOR switch to "CD".
- Operate the CD player.
- Turn the volume and tone controls to yield an appropriate volume and sound quality.

RECEPTION OF RADIO PROGRAMS

- Set the INPUT SELECTOR switch to "TUNER".
- Operate the tuner to receive a radio program.
- Turn the volume and tone controls to yield an appropriate volume and sound quality.

CONNECTIONS OF AUDIO EQUIPMENT TO AUX TERMINALS

- Set the INPUT SELECTOR switch to "AUX" Position.
- Operate the Audio equipment Systems.
- Turn the volume and tone controls to yield an appropriate volume and sound quality.

PLAYBACK WITH TAPE DECK

- Set the INPUT SELECTOR switch to "DAT/TAPE-1" or "DAT/TAPE-2".
- Operate the Tape Deck.
- Turn the volume and tone controls to yield an appropriate volume and sound quality.

RECORDING WITH TAPE DECK

- Set the REC OUT SELECTOR to the program source you wish to record.
- Start the playback of the program source.
- Start recording with the component connected to "DAT/TAPE-1" or "DAT/TAPE-2".

- In the PMA-1080R, the REC OUT signal and the speaker or headphone signal are output via separate circuits so that knobs and switches related to the tone and volume have no effect whatsoever on the sound that is recorded. Also, since the recording function is selected by the REC OUT SELECTOR, the free program source can be played through the speakers (or headphones) even during recording.

MONITORING THE RECORDING

- A recording in progress can be monitored if a tape deck with three individual heads for recording and playback is used. A tape deck in which a common head is used for both recording and playback cannot be used to monitor recording. When a recording is being made using DAT/TAPE-1, selecting DAT/TAPE-1 with the INPUT SELECTOR will engage the RECORDING MONITOR and permit a check of the recording condition.

CAUTION

Protective Circuit

This set is equipped with a high speed protective circuit. This circuit protects the internal circuitry from damage due to large currents flowing when the speaker jacks are not completely connected or when an output is generated by a short circuit. This protective circuit's operation cuts off the output to the speakers in such a case, be sure to turn the power to the set off and check the connections to the speakers. Then turn the power on again. After muting for several seconds, the set will operate normally.

NOTE

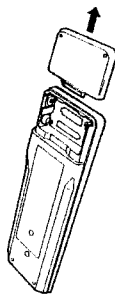
- This amplifier has a full memory back-up system. When the power is turned on, SPEAKERS **13**, INPUT SELECTOR **14**, and SOURCE DIRECT **15** are set to the last mode set before the power was turned off.

REMOTE CONTROL OPERATION

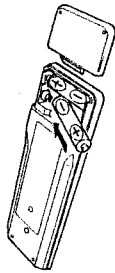
The accessory Remote Control Unit is used to control the amplifier from a convenient distance.

(1) Inserting the Dry Cell Batteries

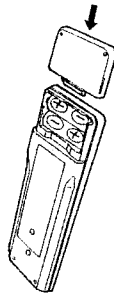
1. Remove the battery cover on the Remote Control Unit.



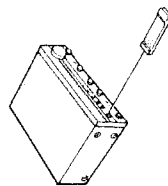
2. Insert two dry cell batteries as shown in the diagram on the battery supply unit.



3. Replace the battery cover.



(2) Directions for use



Note on operation

- Do not press the operating buttons on the Amplifier and the Remote Control Unit at the same time. This will cause misoperation.
- Operation of the Remote Control Unit will become less effective or erratic if the infrared Remote Control Sensor on the Amplifier is exposed to strong light or if there are obstructions between the Remote Control Unit and the sensor.
- In case you operate a VCR, TV or other components by remote control, do not operate buttons on two different remote control units at the same time. This will cause misoperation.

Besides being able to operate the PMA-1080R amplifier with this Remote Control Unit, you can also operate a DENON cassette deck and CD player from this handy full-system Remote Control Unit.

Remote control section

Full-system Remote Control Unit

The full-system Remote Control Unit operates all major functions of the Amplifier, such as function switching, volume control. But that's not all! The same control pad can also control the major functions of a DENON CD player and cassette deck and tuner, when combined with the PMA-1080R to create a remarkably ergonomic and versatile DENON system with all the quality sound reproduction that the devoted audiophile expects.

- Notes on Battery Usage**
- RC-151 uses the size R6P (AA) dry cell batteries.
 - The batteries will need to be replaced approximately once a year. This will depend upon how often the Remote Control Unit is used.
 - If, in less than a year, from the time new batteries were inserted the Remote Control Unit fails to operate the Amplifier from a near-by position, it is time to replace the batteries.
 - Insert the batteries properly, following the polarity diagram inside the battery compartment.
 - Batteries are prone to damage and leakage. Therefore:
 - Do not mix new batteries with used ones.
 - Do not mix different types of batteries.
 - Do not jumper opposite poles of the batteries; expose them to heat, break them open, nor expose them to open fire.
 - If the batteries have leaked, remove any traces of battery fluid from the battery compartment wiping thoroughly with a dry cloth. Then insert new batteries.

- Operate the Remote Control Unit while pointing it towards the Remote Control Sensor on the Amplifier as shown in the diagram on the left.
- The Remote Control Unit can be used at distances up to about 8 meters in a straight line from the amplifier. This distance will decrease if there are obstructions blocking the infrared light transmission or if the Remote Control Unit is not directed straight at the amplifier.

- Do not press the operating buttons on the Amplifier and the Remote Control Unit at the same time. This will cause misoperation.
- Operation of the Remote Control Unit will become less effective or erratic if the infrared Remote Control Sensor on the Amplifier is exposed to strong light or if there are obstructions between the Remote Control Unit and the sensor.
- In case you operate a VCR, TV or other components by remote control, do not operate buttons on two different remote control units at the same time. This will cause misoperation.

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Remote Control Unit RC-151 supplied with the PMA-1080R

1 [POWER] buttons

These buttons can be used to turn on and off the power of the various components, including the amplifier, tuner, cassette tape deck, CD player, etc. However, the power for these components can only be turned on and off if they are in the power standby mode and the power cord is plugged in.

This button will not function if there is a power failure, if the power cord is not plugged in, or when using an audio timer.

For some components, these buttons will not turn the power on and off. Read the manuals for the components before using the buttons.

2 SP-A and SP-B buttons

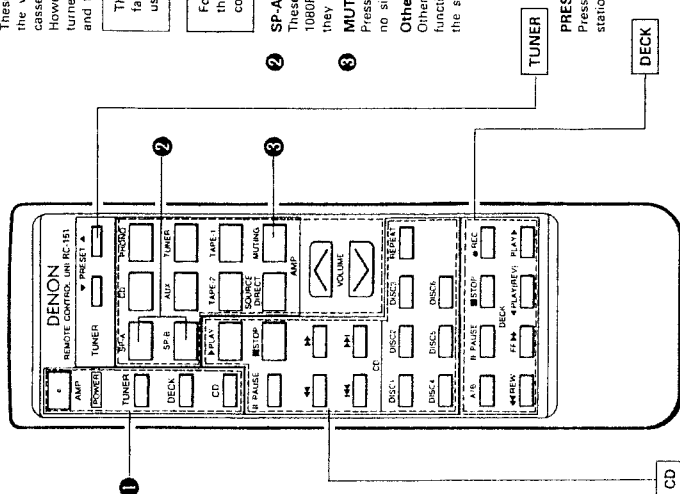
These control the speaker selector switches on the PMA-1080R. The switches turn on, off, then back on each time they are pressed.

3 MUTING button

Pressing this switch will activate the muting condition and no signals will be output to the speakers.

Other buttons

Other buttons are exclusively for the PMA-1080R, and function in the same way as the corresponding buttons on the set.



▶ PLAY	▶ PLAY button
◀ PLAY (REV)	▶ PLAY (REV) button
■ STOP	■ STOP button
◀◀ REW	◀◀ REW button
▶▶ FF	▶▶ FF button
● REC	● REC button
⏸ PAUSE	⏸ PAUSE button
A/B W-DECK	A/B W-DECK button
A/B DECK	A/B DECK button
SELECT	SELECT button

PRESET buttons

Press this button to move up or down among the preset station numbers.

- The RC-151 Remote Control Unit can control all CD players (excluding the DCD-1800R) and cassette decks manufactured by DENON.
- Buttons are conveniently separated into groups, each group controlling one specific component. The groups are AMP, FUNCTION, CD, DECK and TUNER etc.

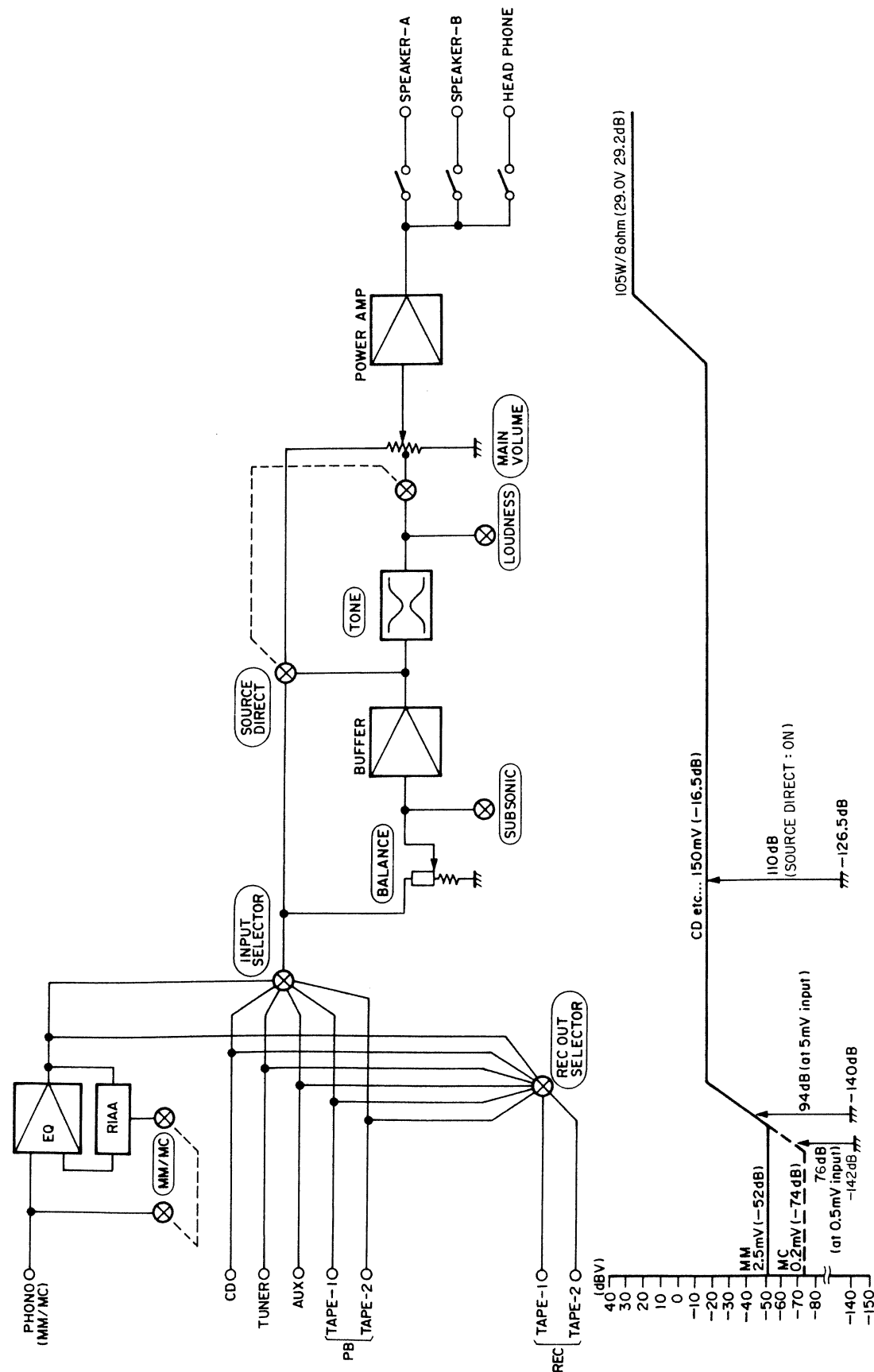
For details on operating other components, refer to the operating instructions for the CD player and/or cassette deck.

CAUTION:

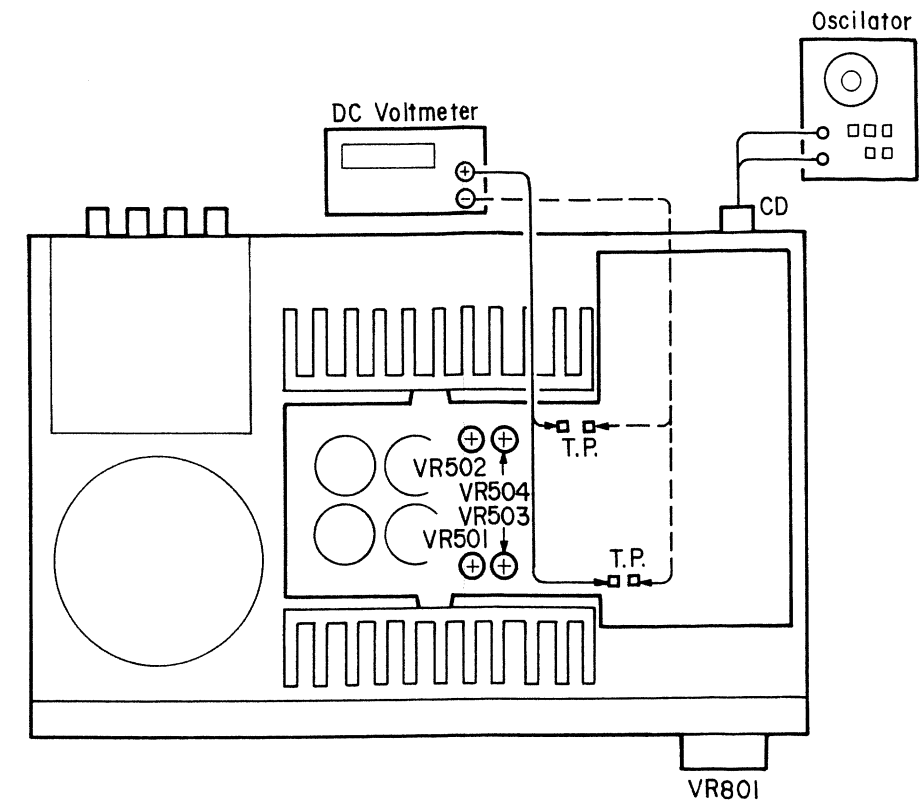
- If the power is turned off with the Remote Control Unit, the set is switched to the power stand-by state. If you are absent for a long period of time, unplug the power cord.
- On the VOLUME LED lights when in the power stand-by mode.
- You may experience erratic operation of the Remote Control Unit if it is operated in fluorescent light and direct sunlight; in particular if this light strikes the Remote Control Sensor on the Amplifier. However, this is not a malfunction, and if this should happen, simply protect the sensor against such light.

MEMO : _____

BLOCK AND LEVEL DIAGRAM



METHOD OF ADJUSTMENTS



IDLING CURRENT

● Setup

1. Lay the unit at an ordinary position away from a direct current from a cooler or fan. Do the adjustment at a temperature between 15°C (59°F) and 30°C (86°F).
2. Set controls as follows.
 - POWER SWITCH → OFF (■)
 - VOLUME CONTROL → fully counterclockwise. (⤵) min. [Main volume (VR801) and semifixed resistors (VR501, 502, 503 and 504)]
 - SPEAKER Terminals → open: do not connect the speakers, dummy load etc.

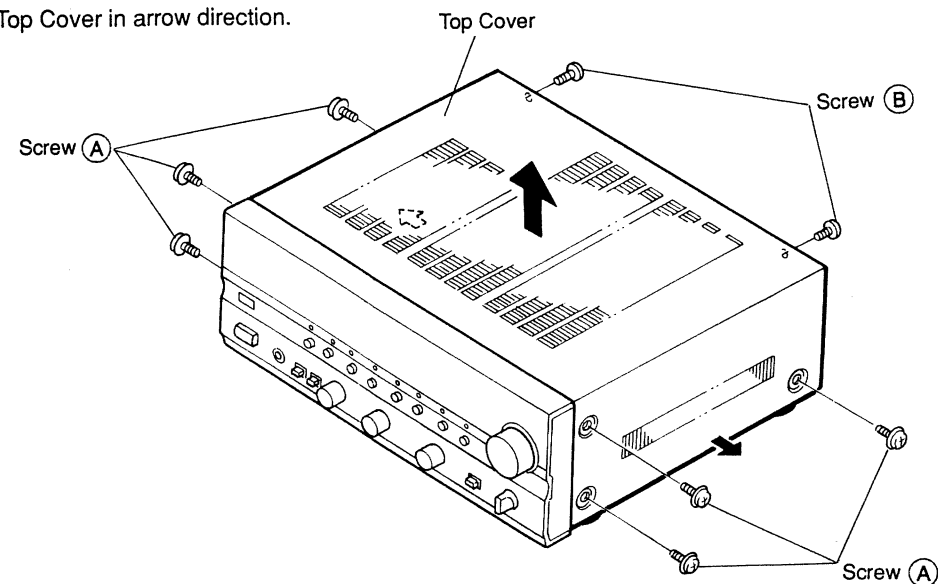
● Adjustment

1. Remove Top cover. And then connect DC Voltmeter to Test points of Main Unit 1U-2460A-1.
2. Connect Power cord to AC outlet, and turn POWER Switch "ON" (■). Within 10 seconds turn VR501 (Lch) and VR502 (Rch) clockwise so that the DC voltmeter reads 8 ± 0.5 mV.
3. Then after 2 minutes warmup adjust VR501 and VR502 so that the DC Voltmeter reads 8 ± 0.5 mV.
4. And after 10 minutes warmup adjust VR501 and VR502 so that the DC Voltmeter reads 8 ± 0.5 mV.
5. Apply a 1 kHz, 10 mVrms signal to both channels input and set the main volume at maximum position.
6. Confirm that the indication of DC voltmeter becomes slightly greater value (approx. 10 mV or less), then adjust the VR503 (L ch), VR504 (R ch) clockwise to obtain $30 \text{ mV} \pm 3 \text{ mV}$ on the meter.
7. After 2 minutes, readjust the VR503, VR504 for $30 \text{ mV} \pm 3 \text{ mV}$.
8. And after 10 minutes warmup, adjust VR503, VR504 for $30 \text{ mV} \pm 3 \text{ mV}$.

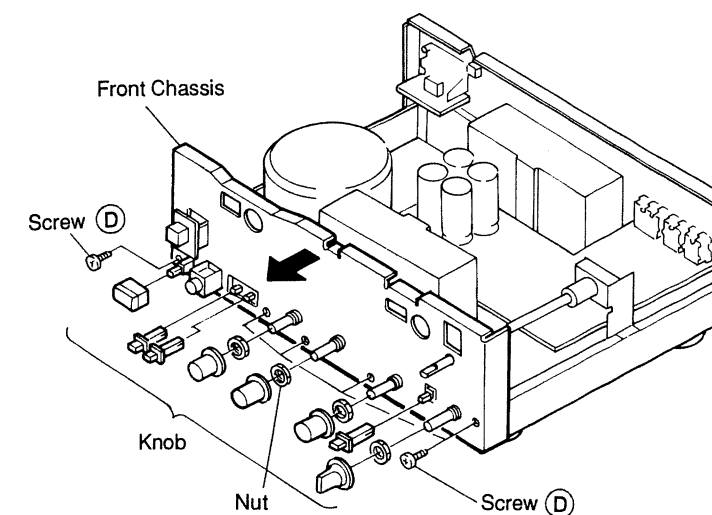
REMOVAL OF EACH SECTION

1. Top Cover

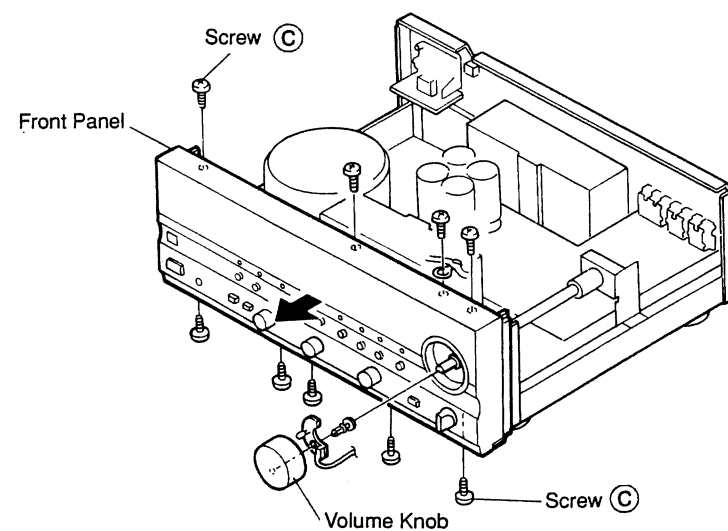
- (1) Remove 6 screws (A), and 2 screws (B).
- (2) Pull up Top Cover in arrow direction.

**3. Front Chassis**

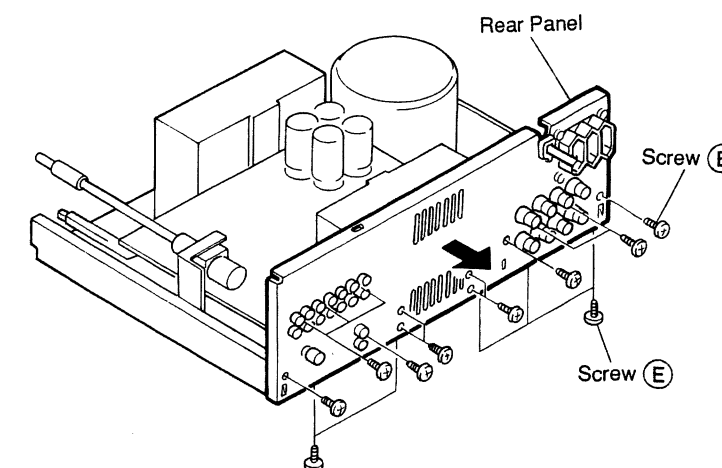
- (1) Remove 8 knobs.
- (2) Remove 5 screws (D) and 4 nuts.
- (3) Detach Front Chassis in arrow direction.

**2. Front Panel**

- (1) Remove Volume Knob and 9 screws (C).
- (2) Pull Front Panel in arrow direction.

**4. Rear Panel**

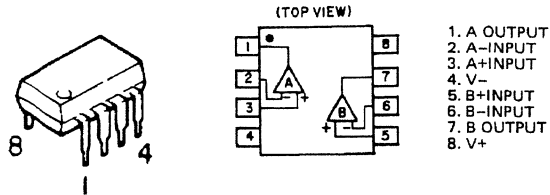
- Remove 18 screws (E) and detach Rear Panel in arrow direction.



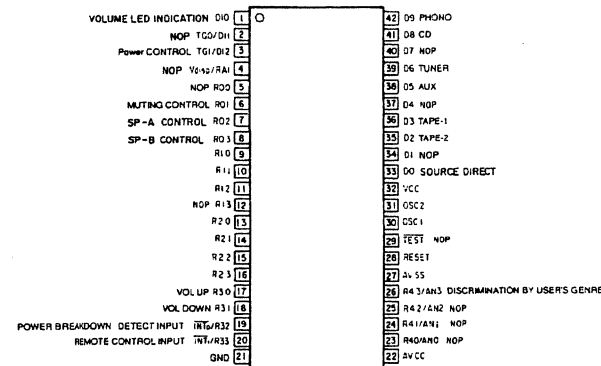
SEMICONDUCTORS

● IC's

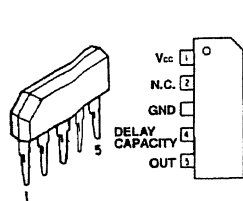
NJM4558DD (IC701)
 NJM2068DDC (IC201)
 M5218AP (IC401)
 NJM2082DD (IC402)



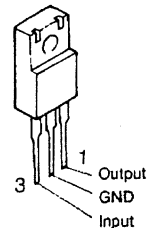
HD404304A13P (IC101)



M51954A (IC602)

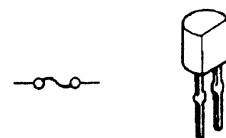
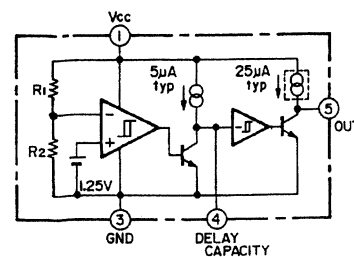
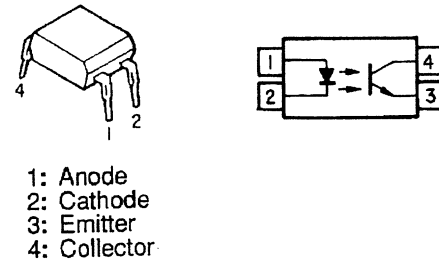


NJM7806FA(S) (IC601)

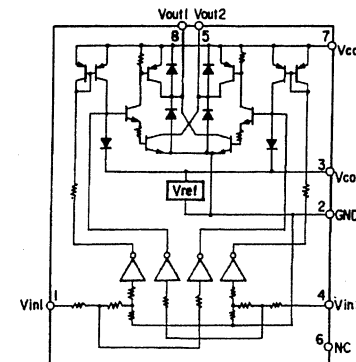
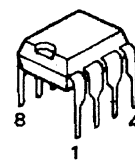


● IC PROTECTOR

ICP-N15 (IC603)

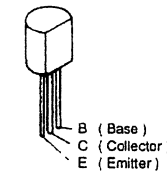
TRP521-1(BL)
INFRARED LED + PHOTO TRANSISTOR

Pin No.	Name	I/O	Contents	Active
1	D10	O	VOLUME LED Indication	H
2	TG0/D11	O	NOP	
3	TG1/D12	O	Power Control (REMOTE Power-ON/OFF)	L
4	Vdisp/RA1	I	NOP	
5	R00	O	NOP	
6	R01	O	Muting Control (Power ON-OFF, Function Shifting, Muting)	L
7	R02	O	SP-A Control	H
8	R03	O	SP-A Control	H
9	R10	O		H
10	R11	O	Key scan strobe	H
11	R12	O		H
12	R13	O	NOP	
13	R20	I		
14	R21	I	Key scan receive	
15	R22	I		
16	R23	I		
17	R30	O	Volume Control "UP" → "H"	H
18	R31	O	Volume Control "DOWN" → "H"	H
19	INT0/R32	I	Power Breakdown detect input	
20	INT1/R33	I	Remote control signal decoding input	
21	GND		GND	
22	AVcc		Avcc (Vcc)	
23	R40/AN0		NOP	
24	R41/AN1	I	NOP	
25	R42/AN2	I	NOP	
26	R43/AN3	I	Discrimination port by user's genre	
27	AVss		AVss (GND)	
28	RESET		M51954A; External	
29	TEST		Vcc	
30	OSC1		Carrier Filt Oscillator 4MHz; External	
31	OSC2		Carrier Filt Oscillator 4MHz; External	
32	Vcc		Vcc	
33	D0	O	SOURCE DIRECT Control	H
34	D1	O	NOP	
35	D2	O	TAPE-2 Control	H
36	D3	O	TAPE-1 Control	H
37	D4	O	NOP	
38	D5	O	AUX Control	H
39	D6	O	TUNER Control	H
40	D7	O	NOP	
41	D8	O	CD Control	H
42	D9	O	PHONO Control	H

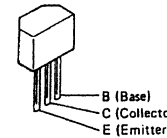
LB1639
(IC103)

● TRANSISTORS

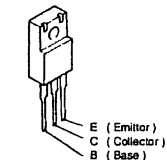
2SA988 (E/F)
 2SC1841 (E/F)
 2SC1815 (BL)
 2SC2240 (BL/GR)



2SC2458 (BL)
 2SA1048 (GR)

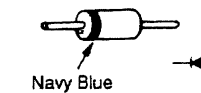


2SD1763A (D)
 2SB1186A (D)
 2SD1913 (R/S)
 2SB1274 (R/S)

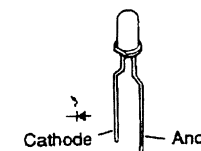


● DIODES (including LED)

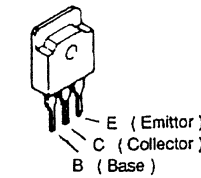
1S2076A
 1SS270A



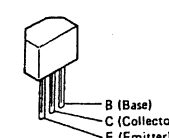
SEL-1810A (Orange)
 SEL-1210S (Red)



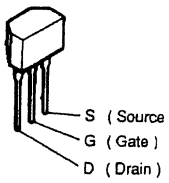
2SA1491LB4 (O)/(P)/(Y)/Z
 2SC3855LB4 (O)/(P)/(Y)/Z



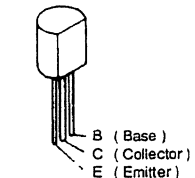
RN1202 NPN
 RN1204 NPN
 RN2204 PNP



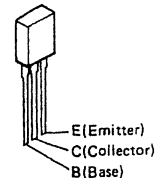
2SK184C (GR)/(RL)-C



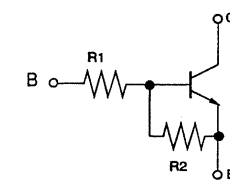
2SA1145(O)/(Y)
 2SC2705(O)/(Y)



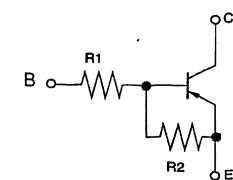
2SB1328 (P)
 2SD2004 (P)



RN1202
 RN1204



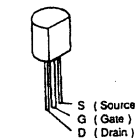
RN2204



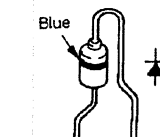
	R1	R2
RN1202	10 Kohm	10 Kohm
RN1204	47 Kohm	47 Kohm

	R1	R2
RN2204	47 Kohm	47 Kohm

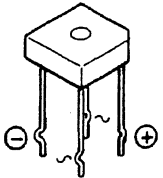
2SK369 (BL) / (GR)-C



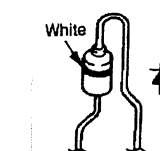
1SR35-200A



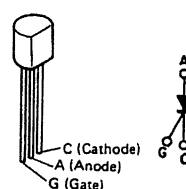
S4VB20



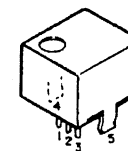
DSM1D2 (TYPE-3)



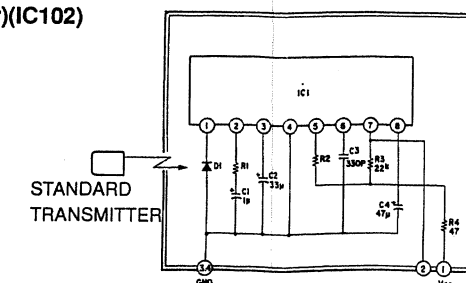
Thyristor
 SF0R1A42



SBX1610-52 (Remote Control Receiver)(IC102)



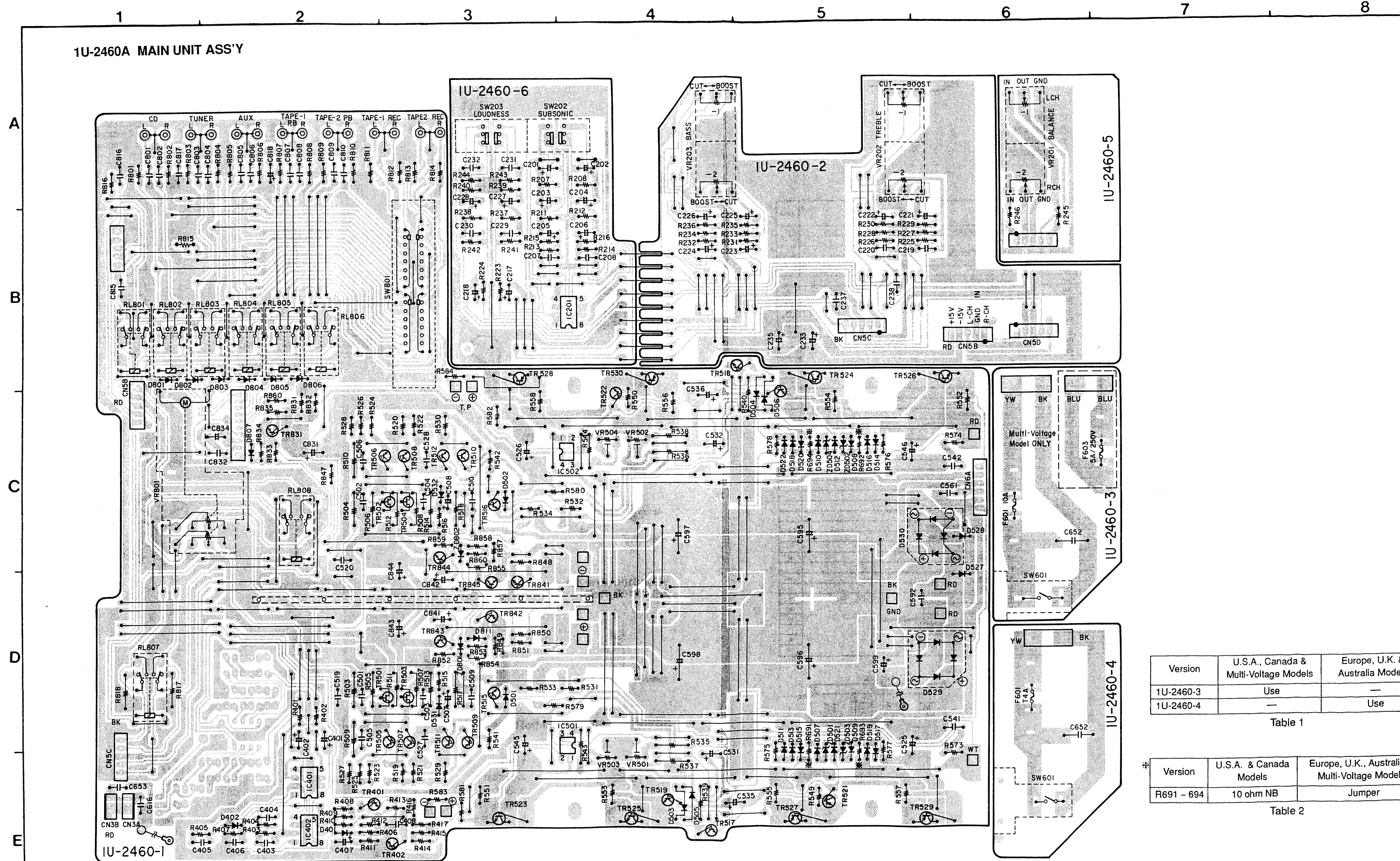
1. Vcc
 2. Output
 3. GND
 4. Case Fin
 5. Case Fin



IC1 : CX20106A Chip
 D1 : PIN Photo Diode Chip
 C1,C2,C4 : Aluminum Electrolytic Capacitor
 C3 : SL Characteristic ±5%
 R1 : Gain Adjuster
 R2 : f₀ Adjuster ±1% USE
 R3,4 : ±5%

PRINTED WIRING BOARD (Pattern Side)

1U-2460A MAIN UNIT ASS'Y



Version	U.S.A., Canada & Multi-Voltage Models	Europe, U.K. & Australia Models
1U-2460-3	Use	—
1U-2460-4	—	Use

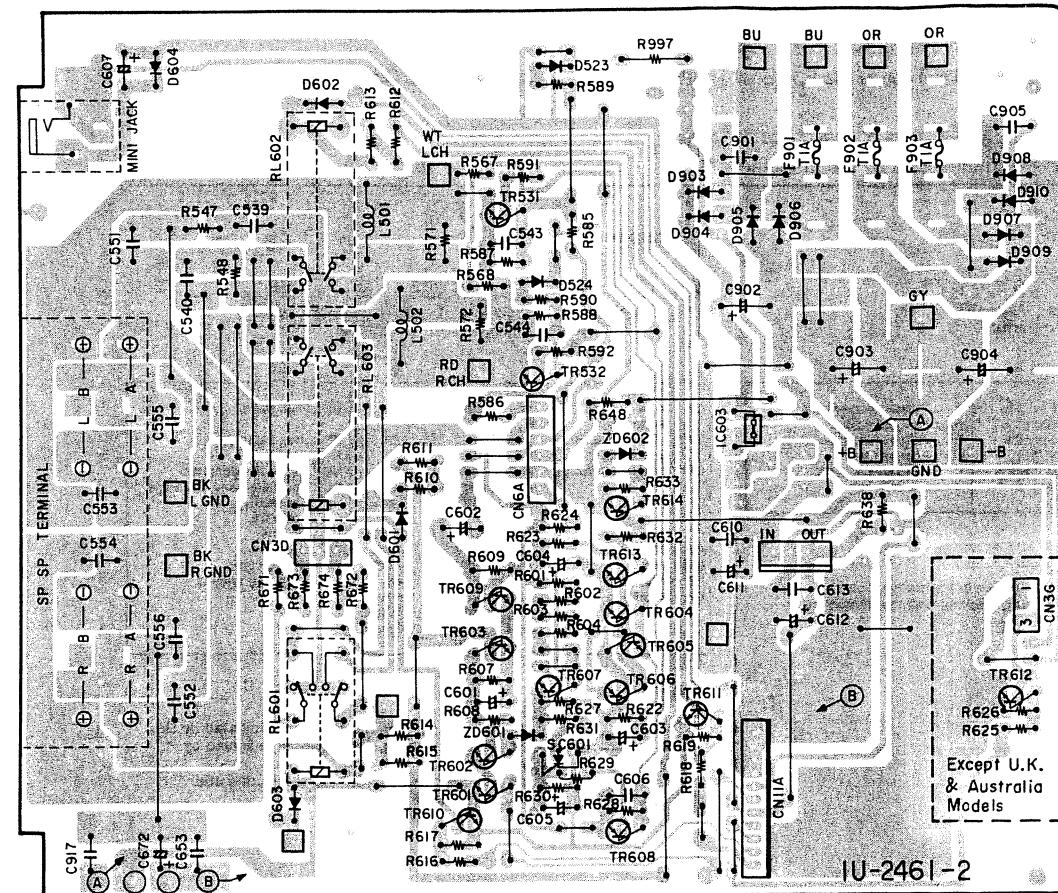
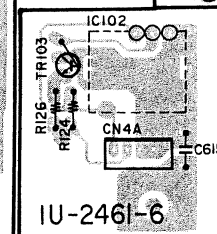
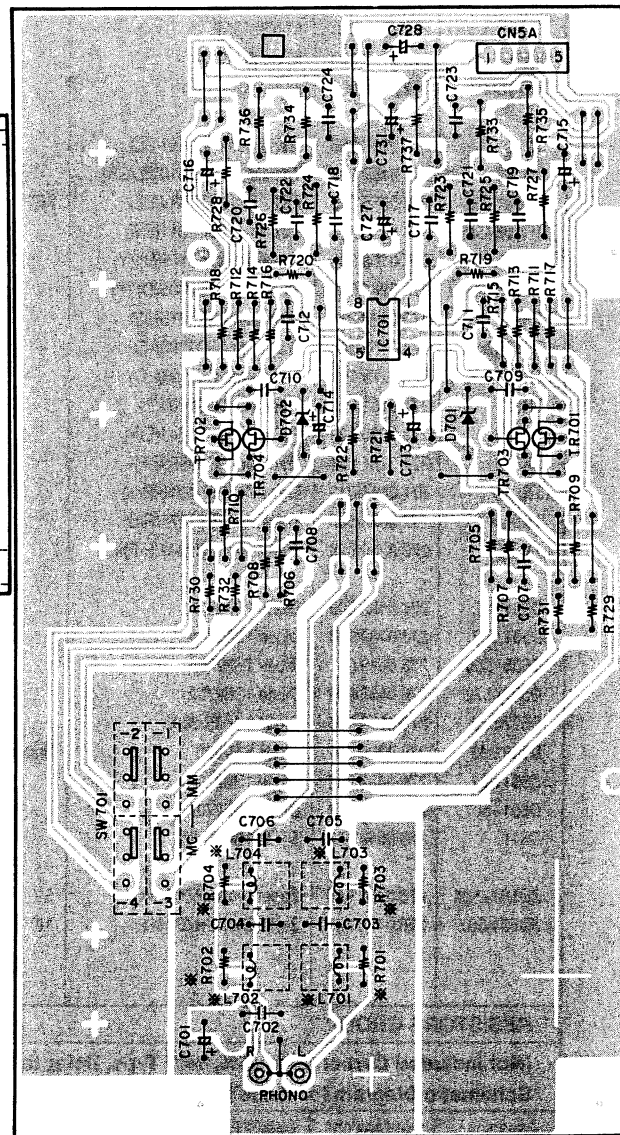
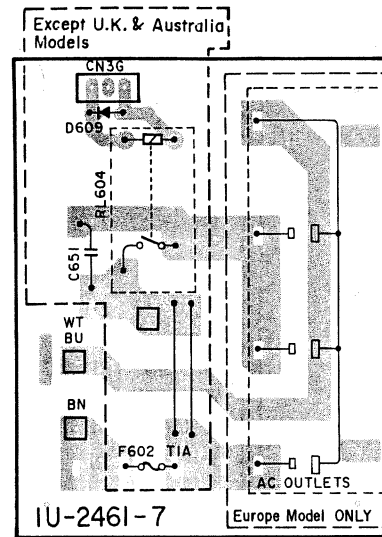
Table 1

Version	U.S.A. & Canada Models	Europe, U.K., Australia & Multi-Voltage Models
R691 - 694	10 ohm NB	Jumper

Table 2

1U-2461A μ -COM UNIT ASS'Y

#	Version	R701 ~ R704	L701 ~ 704	F602
	Europe Model	470	150 μ H	T1.0A
	Except Europe Model	Jumper	—	Jumper



NOTE FOR PARTS LIST

- Part indicated with the mark "◎" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:

Parts marked with this symbol  have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

Resistors

Ex.: **RN** 14K 2E 182 G FR
Type Shape Power Resist- Allowable Others
 and- ance error
 per-
 formance

RD : Carbon	2B : 1/8W	F : ±1%	P : Pulse-resistant type
RC : Composition	2E : 1/4W	G : ±2%	NL : Low noise type
RS : Metal oxide film	2H : 1/2W	J : ±5%	NB : Non-burning type
RW : Winding	3A : 1W	K : ±10%	FR : Fuse-resistor
RN : Metal film	3D : 2W	M : ±20%	F : Lead wire forming
RK : Metal mixture	3F : 3W		
	3H : 5W		

Resistance
1 8 2 ⇒ 1800 ohm = 1.8 kohm
Indicates number of zeros after effective number
2-digit effective number, decimal point indicated by R.
• Units: ohm

Capacitors

Ex.: **CE** 04W 1H 2R2 M BP
Type Shape Dielectric Capacity Allowable Others
 and per- strength error
 formance

CE : Aluminum foil electrolytic	0J : 6.3V	F : ±1%	HS : High stability type
CA : Aluminum solid electrolytic	1A : 10V	G : ±2%	BP : Non-polar type
CS : Tantalum electrolytic	1C : 16V	J : ±5%	HR : Ripple-resistant type
CQ : Film	1E : 25V	K : ±10%	DL : For charge and discharge
CK : Ceramic	1V : 35V	M : ±20%	HF : For assuring high frequency
CC : Ceramic	1H : 50V	Z : ±80%	U : UL part
CP : Oil	2A : 100V	~20%	C : CSA part
CM : Mica	2B : 125V	P : ±100%	W : UL-CSA type
CF : Metallized	2C : 160V	~0%	F : Lead wire forming
CH : Metallized	2D : 200V	C : ±0.25pF	
	2E : 250V	D : ±0.5pF	
	2H : 500V	= : Others	
	2J : 630V		

Capacity
2 R 2 ⇒ 2.2μF
1-digit effective number, decimal point indicated by R.
2-digit effective number, decimal point indicated by R.
• Units: μF, (for P, pF (μμF))
• When the dielectric strength is indicated in AC, "AC" is included after the dielectricUnits: μF, (for P, pF (μμF))

PARTS LIST OF P.W. UNIT
1U-2460A MAIN UNIT (For Europe Black / Gold)

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC201	263 0609 002	IC NJM2068DDC	FET
IC401	263 0711 000	IC M5218AP	
IC402	263 0743 007	IC NJM2082DD	
IC501,502	262 0874 009	IC TLP521-1(BL)	
TR401	273 0317 906	Transistor 2SC2458(BL)	
TR402	273 0187 932	Transistor 2SC2240(BL/GR)	
TR501-504	275 0055 015	FET 2SK184C(GR)/(BL)	
TR505-508	273 0235 923	Transistor 2SC1841(E/F)	
TR509-512	271 0168 900	Transistor 2SA1145(O)/(Y)	
TR515,516	273 0281 906	Transistor 2SC2705(O)/(Y)	
TR517,518	273 0198 918	Transistor 2SC1815(BL)	Bridge
TR519,520	274 0158 008	Transistor 2SD1763A(D)	
TR521,522	272 0115 003	Transistor 2SB1186A(D)	
TR831	274 0151 903	Transistor 2SD2004(P)	
TR841	273 0235 923	Transistor 2SC1841(E/F)	
TR842	271 0131 924	Transistor 2SA988(E/F)	
TR843	274 0136 012	Transistor 2SD1913(R/S)	
TR844	272 0093 010	Transistor 2SB1274(R/S)	
TR845	273 0235 923	Transistor 2SC1841(E/F)	
D401,402	276 0432 903	Diode 1SS270A	5V 18V
D501,502	276 0432 903	Diode 1SS270A	
D503-506	276 0049 011	Diode 1S2076A	
D507-522	276 0432 903	Diode 1SS270A	
D527,528	276 0553 905	Diode 1SR35-200A	
D529,530	276 0305 001	Diode S4VB20	
D531,532	276 0432 903	Diode 1SS270A	
D801-807	276 0432 903	Diode 1SS270A	
D811	276 0553 905	Diode 1SR35-200A	
ZD501-504	276 0460 904	Zener Diode HZS5C-1	
ZD801,802	276 0478 909	Zener Diode HZS18-1	
RESISTORS GROUP			
(Not included Carbon Film ±5%, 1/4W Type. Refer to the Schematic Diagram for those Parts.)			
R503,504	245 2063 907	Metal Film 620ohm, 1/4W	RN14K2E621G
R505-508	245 2084 902	Metal Film 4.7Kohm, 1/4W	RN14K2E472G
R511,512	245 2090 909	Metal Film 8.2Kohm, 1/4W	RN14K2E822G
R513,514	245 2046 908	Metal Film 120ohm, 1/4W	RN14K2E121G
R517,518	245 2099 900	Metal Film 20Kohm, 1/4W	RN14K2E203G
★R519-522	241 2315 983	Fusible 330ohm, 1/4W	RD14B2E331GFRS
★R523-526	241 2376 922	Carbon Film 33ohm, 1/4W(N.B)	RD14B2E330JNBS
★R527,528	241 2380 918	Carbon Film 1.3Kohm, 1/4W(N.B)	RD14B2E132JNBS
★R529,530	241 2377 921	Carbon Film 82ohm, 1/4W(N.B)	RD14B2E820JNBS
★R531-534	241 2371 930	Fusible 160ohm, 1/4W	RD14B2E161GFRS
R535,536	245 2074 909	Metal Film 1.8Kohm, 1/4W	RN14K2E182G
R537,538	245 2088 908	Metal Film 6.8Kohm, 1/4W	RN14K2E682G
R539,540	245 2116 906	Metal Film 100Kohm, 1/4W	RN14K2E104G

Ref. No.	Part No.	Part Name	Remarks
★R541,542	244 2055 967	Metal Oxide 12Kohm, 1W	RS14B3A123JNBS(S)
R543,544	245 2103 906	Metal Film 30Kohm, 1/4W	RN14K2E303G
★R549,550	241 2377 963	Carbon Film 120ohm, 1/4W(N.B)	RD14B2E121JNBS
R551-558	243 2061 013	Wire Wound 0.22ohm, 5W	RW99-3FR22K
★R573,574	244 2050 904	Metal Oxide 22ohm, 1W	RS14B3A220JNBS(S)
R817,818	245 2081 905	Metal Film 3.6Kohm, 1/4W	RN14K2E362G
★R831	244 2051 916	Metal Oxide 7.5Kohm, 1W	RS14B3A752JNBS(S)
★R832	244 2050 991	Metal Oxide 6.8Kohm, 1W	RS14B3A682JNBS(S)
★R833	244 2051 990	Metal Oxide 4.7Kohm, 1W	RS14B3A472JNBS(S)
★R834	244 2052 957	Metal Oxide 5.6Kohm, 1W	RS14B3A562JNBS(S)
★R835	241 2432 905	Carbon Film 470ohm, 1/4W(N.B)	RD14B2E471JNBP
★R860	241 2387 940	Carbon Film 4.7ohm, 1/4W(N.B)	RD14B2E47JNBS
VR201	211 0742 007	Variable Resistor 100Kohm	Balance
VR202	211 0744 005	Variable Resistor 10Kohm	Treble
VR203	211 0743 006	Variable Resistor 30Kohm	Bass
VR501,502	211 6077 941	Semi Fixed Resistor 5Kohm	V06PB502
VR503,504	211 6077 983	Semi Fixed Resistor 47Kohm	V06PB473
VR801	211 0745 004	Variable Resistor 30Kohm	Main
CAPACITORS GROUP			
C201-204	254 4196 009	Electrolytic 0.1μF/50V(SRA)	CE04W1H0R1M
C205,206	254 4196 041	Electrolytic 1μF/50V(SRA)	CE04W1H010M
C207,208	253 4538 004	Ceramic 68pF/50V	CC45SL1H680J
C217,218	254 4193 002	Electrolytic 10μF/16V(SRA)	CE04W1C100M
C219,220	256 1034 018	Metalized 0.033μF/50V	CF93A1H333J
C221,222	254 4196 012	Electrolytic 0.22μF/50V(SRA)	CE04W1HR22M
C223,224	254 4196 009	Electrolytic 0.1μF/50V(SRA)	CE04W1H0R1M
C225,226	254 4196 038	Electrolytic 0.47μF/50V(SRA)	CE04W1HR47M
C227,228	254 4196 025	Electrolytic 0.33μF/50V(SRA)	CE04W1HR33M
C229,230	256 1034 050	Metalized 0.068μF/50V	CF93A1H683J
C231,232	256 1034 018	Metalized 0.033μF/50V	CF93A1H333J
C233	254 4196 041	Electrolytic 1μF/50V(SRA)	CE04W1H010M
C235	254 4196 041	Electrolytic 1μF/50V(SRA)	CE04W1H010M
C237,238	253 4537 021	Ceramic 33pF/50V	CC45SL1H330J
C401,402	254 4260 045	Electrolytic 1μF/50V	CE04W1H010M
C403	253 3603 008	Ceramic 10pF/50V	CC45SL1H100D
C404	254 4260 087	Electrolytic 10μF/50V	CE04W1H100M
C405	253 3603 008	Ceramic 10pF/50V	CC45SL1H100D
C406	253 1181 001	Ceramic 0.01μF/50V	CK45F1H103Z
C407	254 4260 090	Electrolytic 22μF/50V	CE04W1H220M
C408	253 1181 001	Ceramic 0.01μF/50V	CK45F1H103Z
C501-504	255 6177 948	Plastic Film 100pF/50V(SMT)	CQ09S1H101J
C505,506	255 6179 904	Plastic Film 0.0022μF/50V(SMT)	CQ09S1H22J
C507,508	254 4431 007	Electrolytic 47μF/50V(ARA)	CE04W1H470M
C509,510	255 6163 046	Plastic Film 20pF/250V	CQ09S2E200J
C519,520	255 6177 980	Plastic Film 220pF/50V(SMT)	CQ09S1H221J
C525,526	254 4434 907	Electrolytic 47μF/100V(ARA)	CE04W2A4R7M
C527,528	255 6163 033	Plastic Film 18pF/250V	CQ09S2E180J
C531,532	254 4260 045	Electrolytic 1μF/50V	CE04W1H010M
C535,536	254 4432 705	Electrolytic 220μF/50V(ARE)	CE04W1H221MC
C541,542	255 4199 973	Plastic Film 0.01μF/50V(MRZ)	CQ92M1H103J
C545,546	254 4434 907	Electrolytic 47μF/100V(ARA)	CE04W2A4R7M
C561	256 1042 000	Metalized 0.1μF/250V	CF93A2E104K
C592	256 1042 000	Metalized 0.1μF/250V	CF93A2E104K

1U-2460D for Multi-Voltage Model PARTS LIST
 (Same as 1U-2460A for Europe Black except the following)

Ref. No.	Part No.	Part Name	Remarks
C595,596	254 4426 009	Electrolytic 8200 μ F/ V	CE04W-822MC(DL)
C597,598	254 4427 008	Electrolytic 8200 μ F/ V	CE04W-822MC(DL)ALP
C599	254 4347 748	Electrolytic 1 μ F/50V(ARSA)	CE04W1H010MC
C616	253 1181 014	Ceramic 0.022 μ F/50V(ARSA)	CK45F1H223Z
C652	253 8003 713	Ceramic 4700pF/400V(AC)	CK45E2GAC472MC
C653	253 1181 014	Ceramic 0.022 μ F/50V	CK45F1H223Z
C801~810	253 4537 089	Ceramic 56 μ F/50V	CC45SL1H560J
C815,816	255 4199 986	Plastic Film 0.001 μ F/50V(MRZ)	CQ92M1H102J
C817	253 1181 014	Ceramic 0.022 μ F/50V	CK45F1H223Z
C818	254 4260 045	Electrolytic 1 μ F/50V	CE04W1H010M
C831	254 4263 987	Electrolytic 10 μ F/100V	CE04W2A100M
C832	253 1181 014	Ceramic 0.022 μ F/50V	CK45F1H223Z
C834	254 3053 004	Electrolytic 10 μ F/16V Bipole	CE04D1C100MBP
C841,842	254 4256 059	Electrolytic 220 μ F/25V	CE04W1E221M
C843,844	254 4356 755	Electrolytic 220 μ F/50V(ARS)	CE04W1H221MC

OTHER GROUP**Q'ty**

	—	(P.W.Board)		(1)
SW202,203	212 1104 003	2P Push Switch	SUB,LOUD	1
SW601	212 1031 008	Power Switch(TV-5)		1
RL801~808	214 0127 003	Relay(RY-12W)		8
	204 8266 008	4P Pin Jack(S-GND)		2
	204 8300 003	6P Pin Jack		1
	212 4331 006	Slide Switch(4-6)REMOTE		1
	202 0022 008	Fuse Holder		2
F601	206 1015 087	Fuse(T4.0A)		1
	412 2160 044	Common Plate		1
CN5A	205 0233 058	5P EH Conn.Base		1
CN5B	205 0277 056	5P EH Conn.Base(RD)		2
CN5C	205 0278 055	5P EH Conn.Base(BK)		2
CN6A	205 0233 061	6P EH Conn.Base		1
CN3A	205 0343 032	3P Conn.Base(KR-PH)		1
CN3B	205 0321 038	3P Conn.Base(RED)		1
CN10A	205 0375 000	10P Conn.Base(KR-PH)		1
CN5D	203 8282 018	5P SCN-SCN Conn.Cord		1
	205 0149 003	2P Wrapping Terminal		1
	415 0309 042	PVC Tube(L=05)		8
	203 0418 071	1P SIN Cord Ass'y		1
	203 0497 021	1P Contact Ass'y		1

Ref. No.	Part No.	Part Name	Remarks	Q'ty
R691~694	241 2375 907	Carbon Film 10ohm,1/4W(N.B)	RD14B2E100JNBS	4
SW601	212 9534 002	Power Switch(TV-8)		1
	202 0022 008	Fuse Holder		4
F601	206 1061 073	Fuse (T10A/250V)		1
F603	206 1061 044	Fuse (T5A/250V)		1
	205 0149 003	2P Wrapping Terminal		2

1U-2460E for U.S.A & Canada Models PARTS LIST
 (Same as 1U-2460A for Europe Black except the following)

Ref. No.	Part No.	Part Name	Remarks	Q'ty
R691~694	241 2375 907	Carbon Film 10ohm,1/4W(N.B)	RD14B2E100JNBS	4
SW601	212 9534 002	Power Switch(TV-8)		1
F601	206 1046 043	Fuse (10A)		1

1U-2461A/B μ -COM UNIT (For Europe Black / Gold)

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC101	262 1579 303	IC HD404304A13P	μ -COM
IC102	299 0150 008	IC SBX1610-52	Remoon Receiver
IC103	263 0476 002	IC LB1639	
IC601	263 0793 002	IC NJM7806FA(S)	Regulator
IC602	263 0535 008	IC M51954A	
IC603	268 0073 905	IC ICP-N15	IC Protector
IC701	263 0030 004	IC NJM4558DD	
TR101	269 0030 909	Transistor RN2204(47K-47K)	Built-in Resistor
TR102	269 0029 907	Transistor RN1204(47K-47K)	Built-in Resistor
TR103	269 0030 909	Transistor RN2204(47K-47K)	Built-in Resistor
TR108-113	273 0235 923	Transistor 2SC1841(E/F)	
TR114	273 0317 906	Transistor 2SC2458(BL)	
TR117	273 0235 923	Transistor 2SC1841(E/F)	
TR120	269 0029 907	Transistor RN1204(47K-47K)	Built-in Resistor
TR531,532	273 0235 923	Transistor 2SC1841(E/F)	
TR601	269 0025 901	Transistor RN1202(10K-10K)	Built-in Resistor
TR602	273 0235 923	Transistor 2SC1841(E/F)	
TR603	272 0107 906	Transistor 2SB1328(P)	
TR604,605	273 0317 906	Transistor 2SC2458(BL)	
TR606	271 0191 906	Transistor 2SA1048(GR)	
TR607	273 0235 923	Transistor 2SC1841(E/F)	
TR608	271 0131 924	Transistor 2SA988(E/F)	
TR609	274 0151 903	Transistor 2SD2004(P)	
TR610,611	273 0235 923	Transistor 2SC1841(E/F)	
TR612-616	273 0317 906	Transistor 2SC2458(BL)	
TR635	271 0191 906	Transistor 2SA1048(GR)	
TR701-704	275 0038 045	FET 2SK369(BL)/(GR)-C	FET
D101,102	276 0432 903	Diode 1SS270A	
D115-117	276 0432 903	Diode 1SS270A	
D523,524	276 0432 903	Diode 1SS270A	
D601-609	276 0432 903	Diode 1SS270A	
D701,702	276 0049 011	Diode 1S2076A	
D903-906	276 0553 905	Diode 1SR35-200A	
D907-910	276 0548 910	Diode DSM1D2	
ZD601,602	276 0466 908	Zener Diode HZS7C-1	7V
LD101	393 9434 906	LED SEL1210S	Red
LD103,104	393 9453 903	LED SEL1810A	Amber
LD106-111	393 9434 906	LED SEL1210S	Red
LD112	393 9453 903	LED SEL1810A	Amber
SC601	279 0016 906	Thyristor SF0R1A42	
RESISTORS GROUP			
(Not included Carbon Film 5%, 1/4W Type. Refer to the Schematic Diagram for those Parts.)			
Δ R547,548	244 2043 937	Metal Oxide 10ohm,1W	RS14B3A100JNBS(S)
Δ R571,572	241 2387 940	Carbon Film 4.7ohm,1/4W(N.B)	RD14B2E4R7JNBS
Δ R585-588	241 2380 950	Carbon Film 2Kohm,1/4W(N.B)	RD14B2E202JNBS
Ref. No.	Part No.	Part Name	Remarks
Δ R609	241 2432 905	Carbon Film 470ohm,1/4W(N.B)	RD14B2E471JNBS
Δ R610	244 2052 986	Metal Oxide 750ohm,1W	RS14B3A751JNBS(S)
Δ R611	244 2051 929	Metal Oxide 820ohm,1W	RS14B3A821JNBS(S)
Δ R612	244 2052 986	Metal Oxide 750ohm,1W	RS14B3A751JNBS(S)
Δ R613	244 2051 929	Metal Oxide 820ohm,1W	RS14B3A821JNBS(S)
Δ R614	244 2050 991	Metal Oxide 6.8Kohm,1W	RS14B3A682JNBS(S)
Δ R615	244 2051 916	Metal Oxide 7.5Kohm,1W	RS14B3A752JNBS(S)
Δ R640	241 2387 940	Carbon Film 4.7ohm,1/4W(N.B)	RD14B2E4R7JNBS
Δ R671-674	244 2051 958	Metal Oxide 220ohm,1W	RS14B3A221JNBS(S)
R705,706	245 2044 900	Metal Film 100ohm,1/4W	RN14K2E101G
R707,708	245 2108 901	Metal Film 47Kohm,1/4W	RN14K2E473G
R709,710	245 2020 908	Metal Film 10ohm,1/4W	RN14K2E100G
R711-714	245 2079 904	Metal Film 3Kohm,1/4W	RN14K2E302G
R715,716	245 2051 906	Metal Film 200ohm,1/4W	RN14K2E201G
R717,718	245 2075 908	Metal Film 2Kohm,1/4W	RN14K2E202G
R721,722	245 2042 902	Metal Film 82ohm,1/4W	RN14K2E820G
R723,724	245 2108 901	Metal Film 47Kohm,1/4W	RN14K2E473G
R725,726	245 2082 904	Metal Film 3.9Kohm,1/4W	RN14K2E392G
R727,728	245 2028 900	Metal Film 22ohm,1/4W	RN14K2E220G
R733,734	245 2052 905	Metal Film 220ohm,1/4W	RN14K2E221G
R735,736	245 2060 900	Metal Film 470ohm,1/4W	RN14K2E471G
R737	245 2066 904	Metal Film 820ohm,1/4W	RN14K2E821G
CAPACITORS GROUP			
C101	253 1181 014	Ceramic 0.022 μ F/50V	CK45F1H223Z
C102	254 4213 034	Electrolytic 100 μ F/6.3V(SRA)	CE04WJ 101M
C103	253 1181 014	Ceramic 0.022 μ F/50V	CK45F1H223Z
C104,105	254 4213 034	Electrolytic 100 μ F/6.3V(SRA)	CE04WJ 101M
C539,540	255 4199 960	Plastic Film 0.022 μ F/50V(MRZ)	CQ92M1H223J
C543,544	253 1181 001	Ceramic 0.01 μ F/50V	CK45F1H103Z
C551-554	255 1251 940	Plastic Film 0.0047 μ F/50V(MRZ)	CQ92M1H472J
C555,556	253 1181 001	Ceramic 0.01 μ F/50V	CK45F1H103Z
C601	254 4254 006	Electrolytic 10 μ F/16V	CE04W1C 100M
C602	254 4264 025	Electrolytic 100 μ F/100V	CE04W2A 101M
C603	254 4250 042	Electrolytic 330 μ F/6.3V	CE04W0J331M
C604,605	254 4252 008	Electrolytic 22 μ F/10V	CE04W1A220M
C606	253 1181 014	Ceramic 0.022 μ F/50V	CK45F1H223Z
C607	254 4254 006	Electrolytic 10 μ F/16V	CE04W1C 100M
C609	256 1034 089	Metalized 0.12 μ F/50V	CF93A1H1 24J
C610	253 1181 014	Ceramic 0.022 μ F/50V	CK45F1H223Z
C611	254 4260 087	Electrolytic 10 μ F/50V	CE04W1H 100M
C612	254 4254 006	Electrolytic 10 μ F/16V	CE04W1C 100M
C613	253 1181 014	Ceramic 0.022 μ F/50V	CK45F1H223Z
C614	254 4250 042	Electrolytic 330 μ F/6.3V	CE04W0J331M
C615	253 1181 014	Ceramic 0.022 μ F/50V	CK45F1H223Z
C617	259 0007 003	Back Up Cap.8200 μ F	SB CAP-822
C618	253 1181 014	Ceramic 0.022 μ F/50V	CK45F1H223Z
C620	254 4260 029	Electrolytic 0.33 μ F/50V	CE04W1H133M
C621	254 4260 074	Electrolytic 4.7 μ F/50V	CE04W1H47M
C622	254 4260 045	Electrolytic 1 μ F/50V	CE04W1H101M

1U-2461C for Australia Model PARTS LIST
(Same as 1U-2461A for Europe Black except the following)

Ref. No.	Part No.	Part Name	Remarks
△C651	253 8003 713	Ceramic 4700pF/400V(AC)	CK45E2GAC472MC
C653	253 1181 014	Ceramic 0.022μF/50V	CK45F1H223Z
C672	254 4260 045	Electrolytic 1μF/50V	CE04W1H010M
C701	254 4260 045	Electrolytic 1μF/50V	CE04W1H010M
C702	253 1181 014	Ceramic 0.022μF/50V	CK45F1H223Z
C703,704	253 4537 063	Ceramic 47pF/50V	CC45SL1H470J
C705,706	255 6177 964	Plastic Film 150pF/50V(SMT)	CQ09S1H151J
C707,708	255 4199 986	Plastic Film 0.001μF/50V(MRZ)	CQ92M1H102J
C709,710	255 6177 948	Plastic Film 100pF/50V(SMT)	CQ09S1H101J
C711,712	255 6179 920	Plastic Film 0.0033μF/50V(SMT)	CQ09S1H332J
C713,714	254 4252 037	Electrolytic 100μF/10V	CE04W1A101M
C715,716	254 4254 006	Electrolytic 10μF/16V	CE04W1C100M
C717,718	255 4199 931	Plastic Film 0.068μF/50V(MRZ)	CQ92M1H683J
C719,720	255 6178 976	Plastic Film 0.0012μF/50V(SMT)	CQ09S1H122J
C721,722	255 4199 957	Plastic Film 0.018μF/50V(MRZ)	CQ92M1H183J
C723,724	255 4199 986	Plastic Film 0.001μF/50V(MRZ)	CQ92M1H102J
C727,728	254 4260 045	Electrolytic 1μF/50V	CE04W1H010M
C731	254 4252 037	Electrolytic 100μF/10V	CE04W1A101M
C901	253 1181 014	Ceramic 0.022μF/50V	CK45F1H223Z
C902	254 4256 790	Electrolytic 2200μF/25V	CE04W1E222MC
C903,904	254 4433 704	Electrolytic 1000μF/35V(ARE)	CE04W1V102MC
C905	256 1042 903	Metalized 0.1μF/250V	CF93A2E104K
C917	253 1181 014	Ceramic 0.022μF/50V	CK45F1H223Z

OTHER GROUP

Ref. No.	Part No.	Part Name	Remarks	Q'ty
SW111-119	212 5604 910	(P.W.Board)		(1)
RL601	214 0127 003	Tact Switch		9
RL601	214 0127 003	Relay(RY-12W)	for H/P	1
△RL604	214 0142 004	Relay(TV5)	for AC Out	1
△	203 3950 002	3P AC Outlet		1
XL101	399 9018 003	Ceramic Vibrator CST4.00MGW		1
L701-704	235 9003 002	FTZ Choke Coil		4
	205 0274 004	2P Connector Base		1
	202 0022 008	Fuse Holder		8
△F602	206 1015 029	Fuse 1A(T)		1
△F901-903	206 1015 029	Fuse 1A(T)		3
SW701	212 1041 001	1P Push Switch	MM/MC	1
	204 8354 004	Head Phone Jack	Black Version	1
	204 8355 003	Head Phone Jack	Gold Version	1
	204 8260 004	Mini Jack		1
	205 0753 004	8P Terminal(S-GND)		1
L501,502	235 0068 004	Inductor 1μH		2
RL602,603	214 9003 005	Relay	for SP A/B	2
CN3A	205 0343 032	3P Conn.Base(KR-PH)		1
CN4A	205 0343 045	4P Conn.Base(KR-PH)		1
CN10A	205 0375 000	10P Conn.Base(KR-PH)		1
CN3G	205 0233 032	3P EH Conn.Base		1
CN11A-2	205 0321 012	11P Conn.Base(RED)		2
CN3B	203 4837 001	3P PH-SAN Conn.Cord		1
CN4A	203 6393 006	4P KR-DS Conn.Cord		1
CN5A	203 8310 029	5P EH-SCN Conn.Cord		1
CN3D	203 4838 000	3P SCN-SCN Conn.Cord		1
CN3G	203 4882 001	3P EH-SCN Conn.Cord		1
CN6A	204 0309 028	6P EH-SCN Conn.Cord		1
	203 0525 045	1P SIN Cord Ass'y	Black l=140	1
	203 0525 058	1P SIN Cord Ass'y	Black l=200	1

Ref. No.	Part No.	Part Name	Remarks	Q'ty
TR612	273 0317 906	Transistor 2SC2458 (BL)	Delete	0
D609	276 0432 903	Diode 1SS270A	Delete	0
△C651	253 8003 713	Ceramic 4700pF/400V (AC)	Delete	0
△	203 3950 002	3P AC Outlet	Delete	0
L701-704	235 9003 002	FTZ Choke Coil	Delete	0
	202 0022 008	Fuse Holder		6
△RL604	214 0142 004	Relay (TV5)	Delete	0
△F602	206 1015 029	Fuse 1A(T)	Delete	0
	205 0777 006	8P Terminal (S-GND)		1
CN3G	205 0233 032	3P EH Conn. Base	Delete	0
CN3G	205 4882 001	3P EH-SCN Conn. Cord	Delete	0

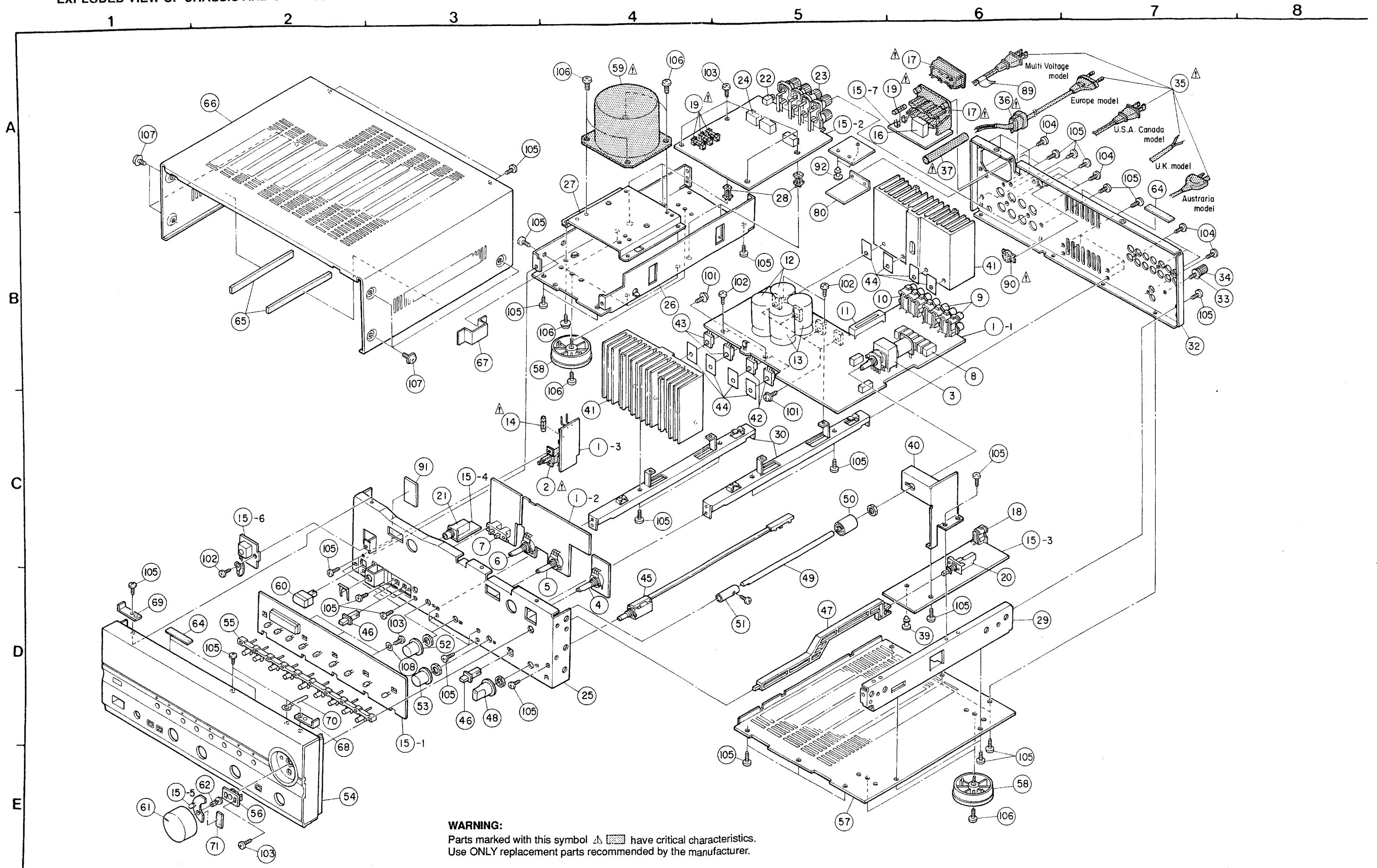
1U-2461D for Multi-Voltage Model PARTS LIST
(Same as 1U-2461A for Europe Black except the following)

Ref. No.	Part No.	Part Name	Remarks	Q'ty
△	203 3950 002	3P AC Outlet	Delete	0
L701-704	235 9003 002	FTZ Choke Coil	Delete	0
	202 0022 008	Fuse Holder		6
△F901-903	206 1053 007	Fuse 1.0A		3
	205 0777 006	8P Terminal (S-GND)		1
△F602	206 1015 029	Fuse 1A (T)	Delete	0

1U-2461E for U.S.A & Canada Models PARTS LIST
(Same as 1U-2461A for Europe Black except the following)

Ref. No.	Part No.	Part Name	Remarks	Q'ty
△	203 3950 002	3P AC Outlet	Delete	0
L701-704	235 9003 002	FTZ Choke Coil	Delete	0
	202 0022 008	Fuse Holder		6
△F901-903	206 1039 034	Fuse 1.0A		3
	205 0777 006	8P Terminal (S-GND)		1
△F602	206 1015 029	Fuse 1A (T)	Delete	0

EXPLODED VIEW OF CHASSIS AND CABINET



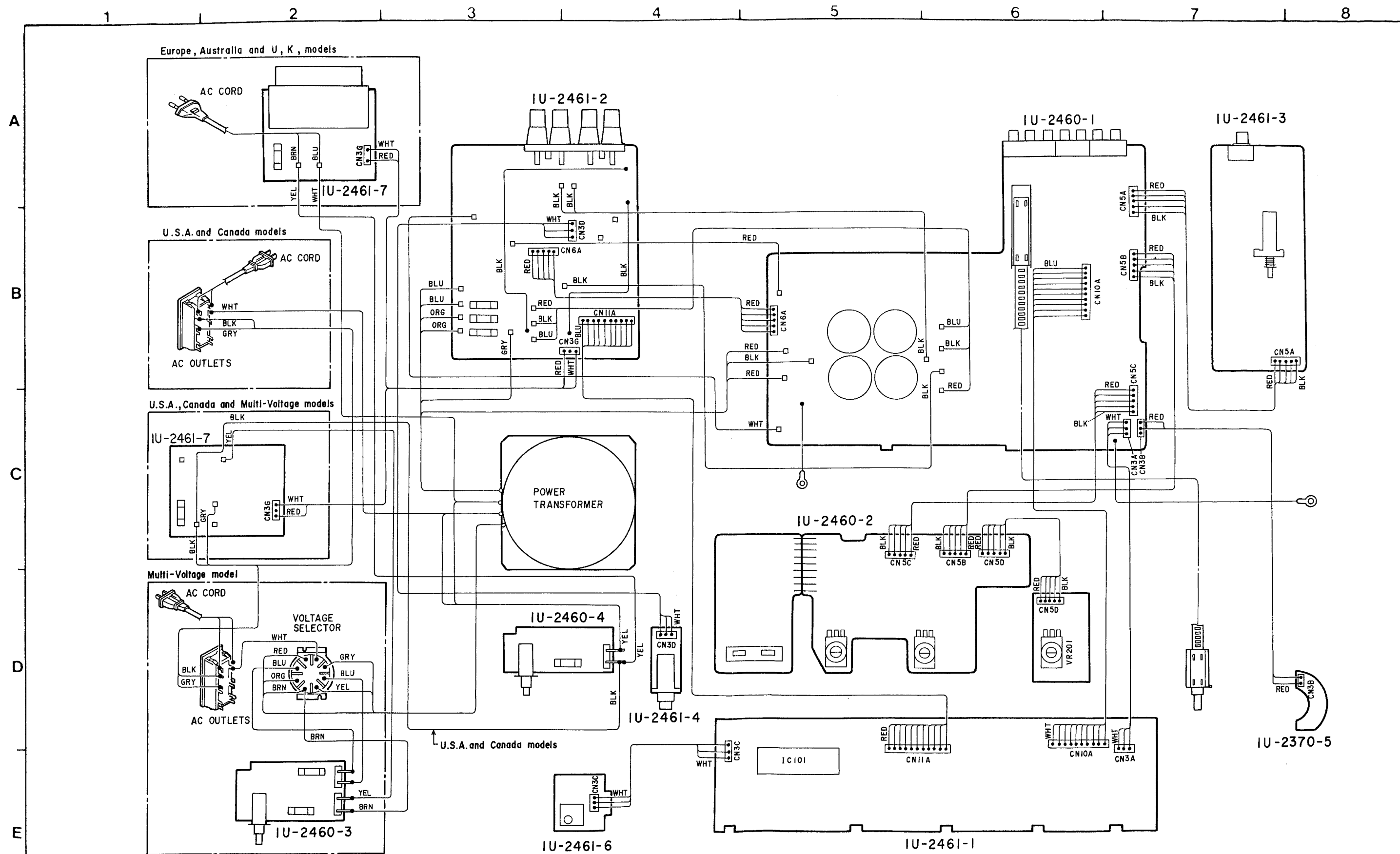
PARTS LIST OF EXPLODED VIEW

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
① * 1	Note	Main Unit Ass'y		1 ^S	49	112 0716 105	VR Knob Joint(A)		1
1-1	—	Main Unit		(1)	50	112 0643 003	VR Knob Joint(B)		1
1-2	—	Control Unit		(1)	51	112 0659 000	VR Joint Stopper		1
1-3	—	Power SW Unit		(1)	* 52	Note	Knob(Maru) S Ass'y	Bass,Treble, Balance	2
△ * 2	Note	Power Switch		1	* 53	Note	Knob(Maru) S Ass'y		1
3	211 0745 004	Variable Resistor 30Kohm	Main	1	* 54	Note	Front Panel Ass'y		1
4	211 0742 007	Variable Resistor 100Kohm	Balance	1	* 55	Note	Function Knob		1
5	211 0744 005	Variable Resistor 10Kohm	Treble	1	56	119 0071 207	Joint Guide		1
6	211 0743 006	Variable Resistor 30Kohm	Bass	1	57	105 0894 207	Bottom Cover		1
7	212 1104 003	2P Push Switch	SUB/LOUD	1	58	104 0194 001	Foot Ass'y		4
8	214 0127 003	Relay(RY-12W)		9	△ * 59	Note	Power Trans		1
9	204 8266 008	4P Pin Jack(S-GND)		2	* 60	Note	Power Knob Ass'y		1
10	204 8300 003	6P Pin Jack		1	* 61	Note	VR Knob Ass'y		1
11	212 4331 006	Slide Switch(4-6) Remote		1	62	477 0096 007	Push Rivet		1
12	254 4426 009	Chemicon 8200μF/ V	C595,596	2	* 63	445 8004 007	Wire Clamper		17
13	254 4427 008	Chemicon 8200μF/ V	C597,598	2	64	461 0501 005	Rubber Sheet	100×8×T1	3
△ * 14	Note	Fuse	F601	1	65	461 0334 007	Rubber Sheet	130×8×T4	2
① * 15	Note	μ-Com Unit Ass'y		1 ^S	* 66	Note	Top Cover		1
15-1	—	μ-Com Unit		(1)	* 67	Note	Side Bracket		1
15-2	—	Protector Unit		(1)	68	412 2549 021	Bracket (C)		1
15-3	—	EQ Unit		(1)	69	412 2549 034	Bracket (D)		1
15-4	—	H/P Unit		(1)	70	445 0048 016	Cord Holder (L=50)		1
15-5	—	Volume LED Unit		(1)	71	461 0577 084	Rubber Sheet	20×8×T1	1
15-6	—	Remocon Sensor Unit		(1)	72				
15-7	—	AC Outlet Unit		(1)	73				
△ 16	214 0142 004	Relay(TV-5)		1	74				
△ * 17	Note	3P AC Outlet		1	SCREWS				
18	205 0274 004	2p Connector Base		1	101	473 8007 009	Cup Screw 3 × 12		8
△ * 19	Note	Fuse 1A	F602,901-903	4	102	473 7002 018	Tapping Screw(S)3 × 8		5
20	212 1041 001	1P Push Switch	MM/MC	1	103	473 7501 001	Tapping Screw(P)3 × 10		8
* 21	Note	Head Phone Jack		1	* 104	Note	Fixing Screw		10
22	204 8260 004	Mini Jack		1	* 105	Note	Tapping Screw(S)3 × 8	Black	44
* 23	Note	8P Terminal(S-GND)	Speaker	1	106	473 7004 003	Tapping Screw(S)4 × 8		12
24	214 9003 005	Relay	SP A/B	2	* 107	Note	3P Swelling Screw		6
② 25	411 1182 208	Front Chassis Ass'y		1	108	477 0231 024	Washer φ4(S)		3
② 26	411 9056 459	Trans Chassis		1	PACKING & ACCESSORIES(Not included EXPLODED VIEW)				
② 27	412 9160 306	Trans Bracket		1	② 201	505 8006 019	Envelope		1
28	415 9032 006	P.C.B. Holder(T)		4	② 202	511 2371 004	Inst.Manual		1
② 29	411 9057 607	Side Chassis		1	② 203	499 0232 007	Remocon Unit(RC-151)		1
② 30	412 3445 001	Radiator Bracket		2	204	—	Battery	R6P/AA	(2)
31	—	—			② 205	504 9102 003	Styrene Paper		1
* 32	Note	Rear Panel		1	② 206	505 9102 019	Poly Cover		1
33	477 0018 001	Washer(P-87)		1	② 207	504 0092 060	Styrene Paper	for AC Cord	1
34	205 0071 016	Terminal Ass'y	GND	1	② 208	503 0864 101	Cushion		2
△ * 35	Note	AC Cord		1	209	501 1553 020	Carton Case		1
△ * 36	Note	Cord Bush		1	210	502 0741 030	Pad		1
△ * 37	Note	UL Tube(8.3)		1	NOTE FOR PARTS LIST				
* 38	Note	Masking Sheet		1	● Part indicated with the mark "②" are not always in stock				
② 39	412 2814 028	Card Spacer(L=10)		1	and possibly to take a long period of time for supplying, or in				
② 40	412 3443 207	Volume Bracket		1	some case supplying of part may be refused.				
41	417 0394 134	Power Radiator		2	● When ordering of part, clearly indicate "1" and "I" (i) to avoid				
42	273 0413 004	Transistor	TR523-526	4	mis-supplying.				
		2SC3855LB4(O/P/Y)(Z)			● Ordering part without stating its part number can not be				
43	271 0263 009	Transistor	TR527-530	4	supplied.				
		2SA1491LB4(O/P/Y)(Z)			● Part indicated with the mark "★" is not illustrated in the				
44	415 0234 007	Insulating Sheet		8	exploded view.				
45	212 0337 004	Rotary Remote Switch	REC OUT	1					
* 46	Note	Push Knob(KAKU)		3					
47	113 1370 006	Push Knob Joint(B)		1					
* 48	Note	Fuji Knob Ass'y		1					

ADDENDUM LIST

Ref. No.	Part Name & Descriptions	Europe Black	Europe Gold	U.S.A. Black	Canada Black	Multi-Voltage Black	Australia Black
① 1	Main Unit Ass'y (1 ^S)	1U-2460A	1U-2460A	1U-2460E	1U-2460E	1U-2460D	1U-2460A
△ 2	Power Switch (1)	212 1031 008	212 1031 008	212 9534 002 (TV-8)	212 9534 002 (TV-8)	212 9534 002 (TV-8)	212 1031 008
△ 14	Fuse (A) (F601) (1)	206 1015 087 (4A)	206 1015 087 (4A)	206 1046 043 (10A)	206 1046 043 (10A)	206 1061 073 (10A/250V)	206 1015 087 (4A)
△ 15	μ-Com Unit Ass'y (1 ^S)	1U-2461A	1U-2461B	1U-2461E	1U-2461E	1U-2461D	1U-2461C
17	3P AC Outlet (1)	203 3950 002	203 3950 002	203 3926 007 (Polarized)	203 3926 007 (Polarized)	203 3926 007 (Polarized)	—
△ 19	Fuse (A) (F901-903) EXCEPT F602 (3)	206 1015 029 (1AT)	206 1015 029 (1AT)	206 1039 034 (1A)	206 1039 034 (1A)	206 1053 007 (1A)	206 1015 029 (1AT)
21	Headphone Jack (1)	204 8354 004	204 8355 003	204 8354 004	204 8354 004	204 8354 004	204 8354 004
23	8P Terminal (S-GND) (1)	205 0753 004	205 0753 004	205 0777 006	205 0777 006	205 0777 006	205 0777 006
32	Rear Panel (1)	105 1016 042	105 1016 042	105 1016 097	105 1016 097	105 1016 084	105 1062 009
△ 35	AC Cord (1)	206 2063 009	206 2063 009	206 2060 002 (Polarized)	206 2060 002 (Polarized)	206 2083 005	206 2025 005
△ 36	Cord Bush (1)	445 0056 008	445 0056 008	445 0056 008	445 0056 008	415 0071 009	445 0056 008
△ 37	UL Tube (8.3) (1)	415 0364 032	415 0364 032	—	—	415 0364 032	415 0364 032
38	Masking Sheet (1)	513 1144 005	513 1144 005	513 9224 008	513 9224 008	—	—
46	Push Knob (kaku) (3)	113 1493 103	113 1493 116	113 1493 103	113 1493 103	113 1493 103	113 1493 103
48	Fuji Knob Ass'y (1)	112 0638 005	112 0638 018	112 0638 005	112 0638 005	112 0638 005	112 0638 005
52	Knob S (Maru) Ass'y (2)	112 0632 205	112 0632 218	112 0632 205	112 0632 205	112 0632 205	112 0632 205
53	Knob S (Maru) Ass'y (1)	112 0632 234	112 0632 247	112 0632 234	112 0632 234	112 0632 234	112 0632 234
54	Front Panel Ass'y (1)	144 2217 308	144 2217 311	144 2217 324	144 2217 308	144 2217 308	144 2217 308
55	Function Knob (1)	113 1538 042	113 1538 055	113 1538 071	113 1538 042	113 1538 042	113 1538 042
△ 59	Power Trans (1)	233 5962 002	233 5962 002	233 5981 009	233 5981 009	233 5977 000	233 5978 009
60	Power Knob Ass'y (1)	113 1054 128	113 1054 131	113 1054 128	113 1054 128	113 1054 128	113 1054 128
61	VR Knob Ass'y (1)	112 0569 129	112 0569 190	112 0569 129	112 0569 129	112 0569 129	112 0569 129
66	Top Cover (1)	102 9027 102	102 9027 115	102 9027 102	102 9027 102	102 9027 102	102 9027 102
67	Side Bracket (1)	412 2955 107	412 2955 107	—	—	—	—
80	P.W.B. Bracket (1)	—	—	412 3565 004	412 3565 004	412 3565 004	412 3565 004
81	Fuse Label (1)	—	—	513 2019 003	513 2019 003	513 1897 051	—
82	Fuse Label (1)	—	—	513 2019 016	513 2019 016	513 1897 064	—
83	Fuse Label (1)	—	—	513 2019 029	513 2019 029	—	—
84	IC Caution Label (1)	—	—	513 1960 001	513 1960 001	—	—
85	Fuse Caution Label (1)	—	—	513 1796 068	513 1796 068	—	—
86	Fuse Caution Label (1)	—	—	513 1796 071	513 1796 071	—	—
87	Dangerous Mark (1)	—	—	513 8266 009	513 8266 009	—	—
△ 88	Fuse (A) (F603) (1)	—	—	—	—	206 1061 044 (5A/250V)	—
89	Preset Label (1)	—	—	—	—	515 8030 008	—
△ 90	Voltage Sel Switch (1)	—	—	—	—	212 9555 007	—
91	Insulating Sheet (1)	—	—	415 0684 000	415 0684 000	—	—
92	P.W.B. Holder (H=12) (3)	—	—	412 2741 049	412 2741 049	412 2741 049	412 2741 049
93							
SCREWS							
104	Fixing Serew	477 0064 107 (10)	477 0064 107 (10)	477 0064 107 (6)	477 0064 107 (6)	477 0064 107 (6)	477 0064 107 (6)
105	Tapping Screw (S) 3x8 Black	473 7015 018 (44)	473 7015 018 (44)	473 7015 018 (45)	473 7015 018 (45)	473 7015 018 (47)	473 7015 018 (45)
107	3P Swelling Screw (6)	477 0263 005	477 0263 018	477 0263 005	477 0263 005	477 0263 005	477 0263 005
PACKING & ACCESSORIES (Not included EXPLODED VIEW)							
② 215	Color Label (Gold) (2)	—	513 9111 001	—	—	—	—
② 216	DCI Warranty (1)	—	—	—	515 0569 001	—	—
② 217	DAI Warranty(4) (1)	—	—	515 0418 505	—	—	—
218							
219							
220							

WIRING DIAGRAM

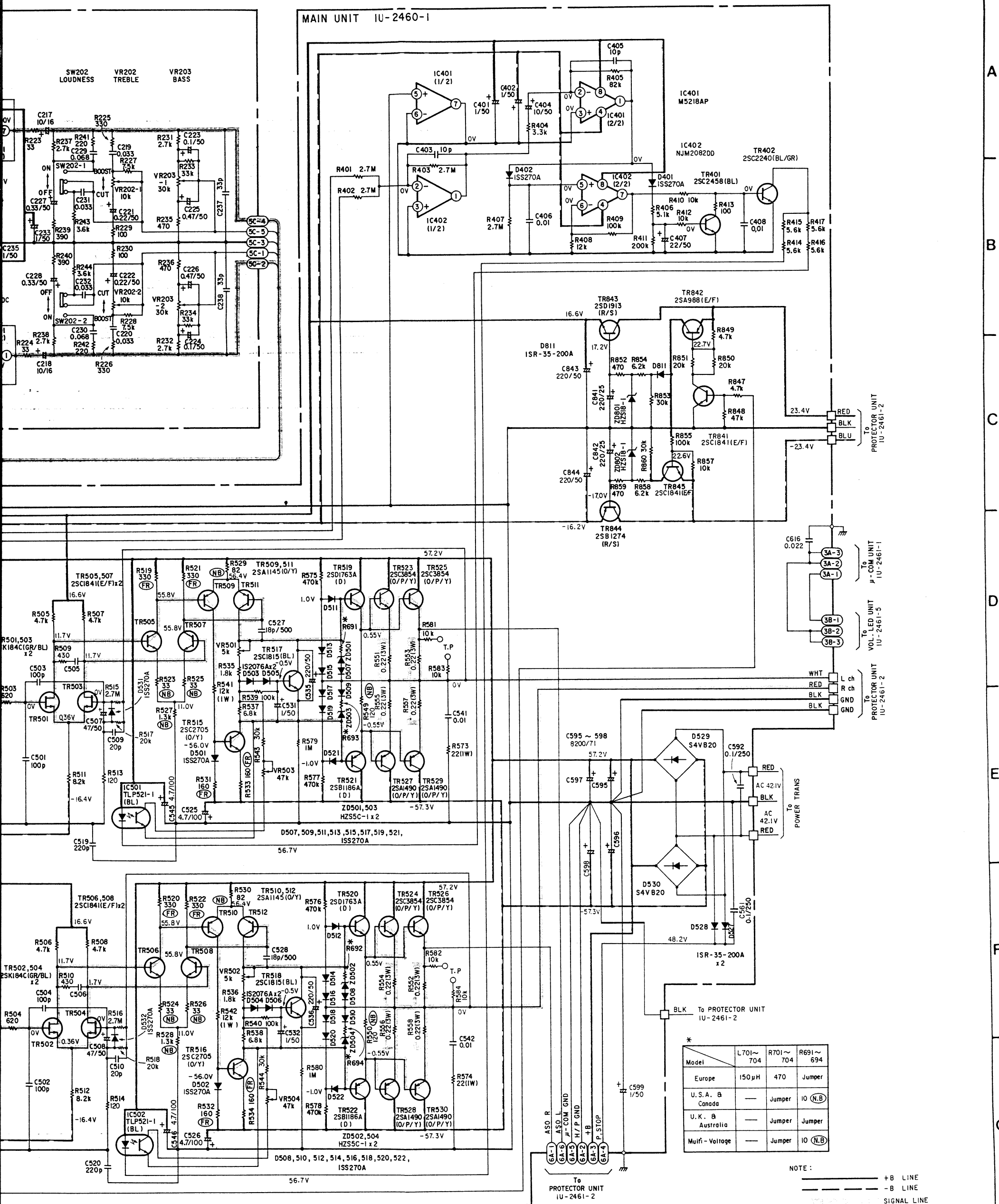


WARNING:
Parts marked with this symbol have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

CAUTION:
Before returning the unit to the customer, make sure you make sure the leakage current exceeds 0.5 milliamps, or if the resistance is defective.

WARNING:
DO NOT return the unit to the customer until the problem is solved.

NOTES:
Circuit and parts are subject to change without prior notice.



make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If
is, or if the resistance from chassis to either side of the power cord is less than 240 kohms, the unit is

until the problem is located and corrected.

without prior notice.

NOTES
ALL RESISTANCE VALUES IN OHM. K=1,000 OHM. M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

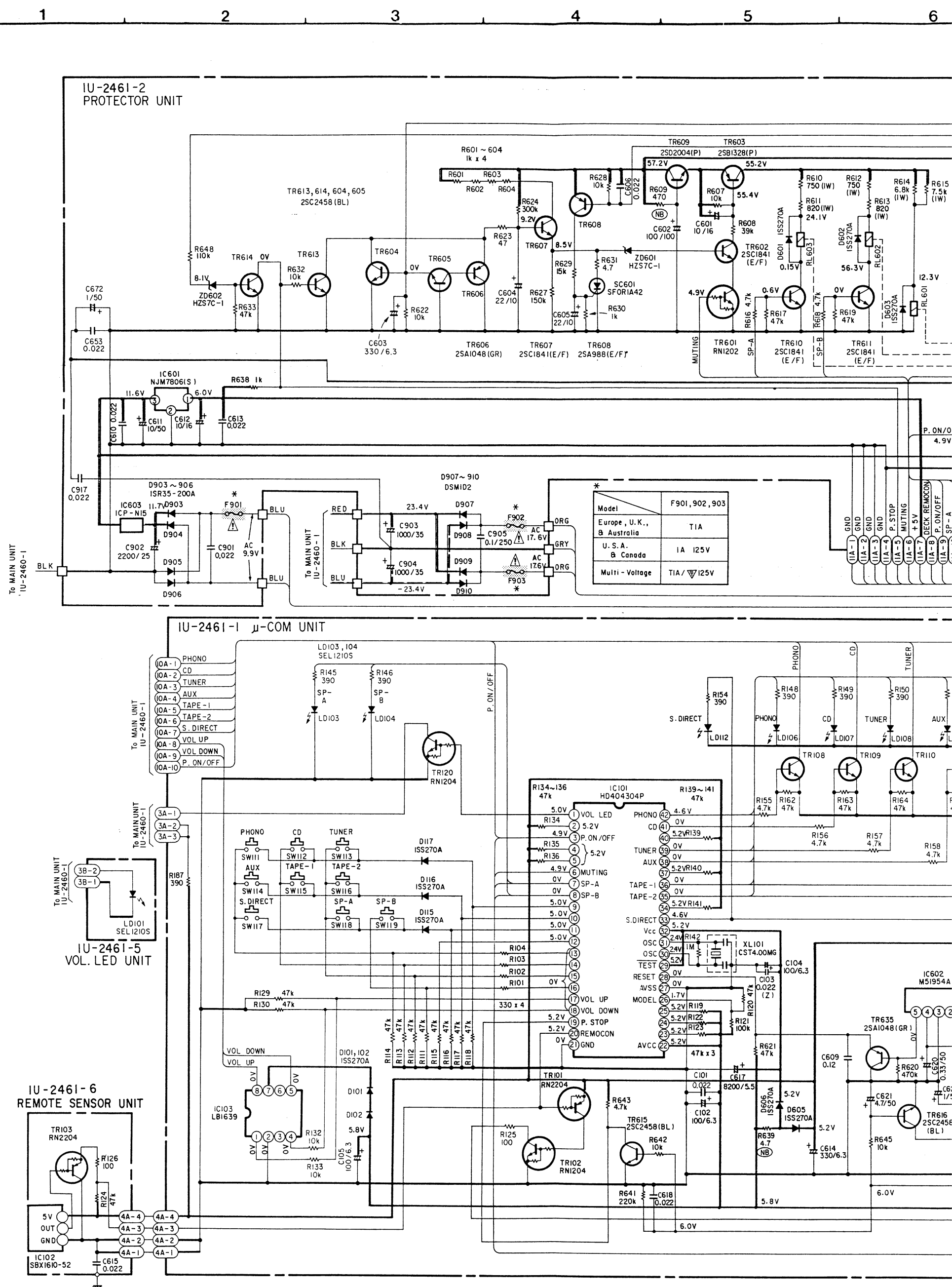
NOTE :

_____ +B LINE

_____ -B LINE

_____ SIGNAL LINE

SCHEMATIC DIAGRAM



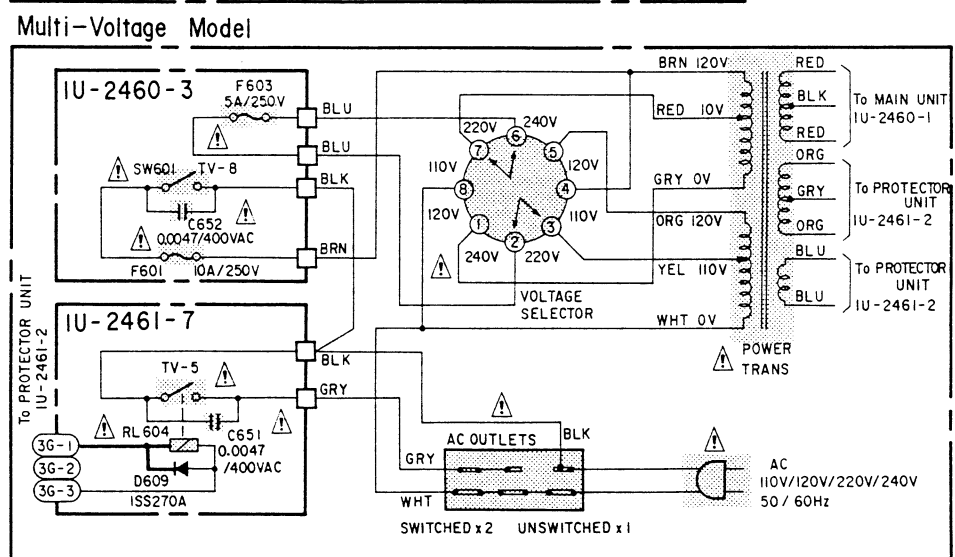
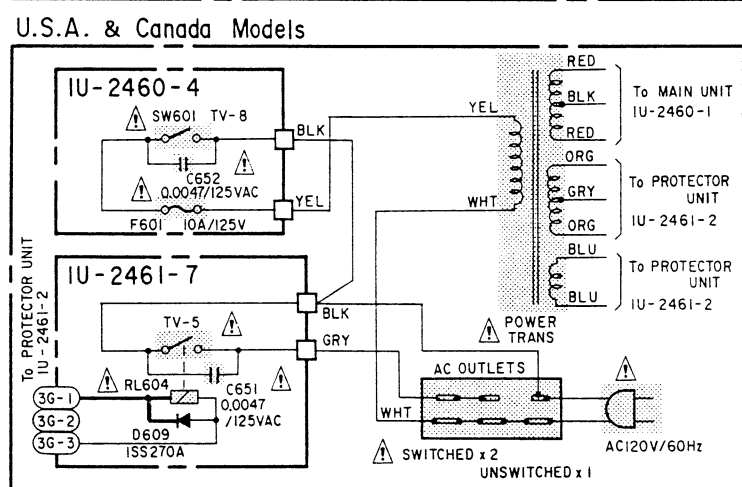
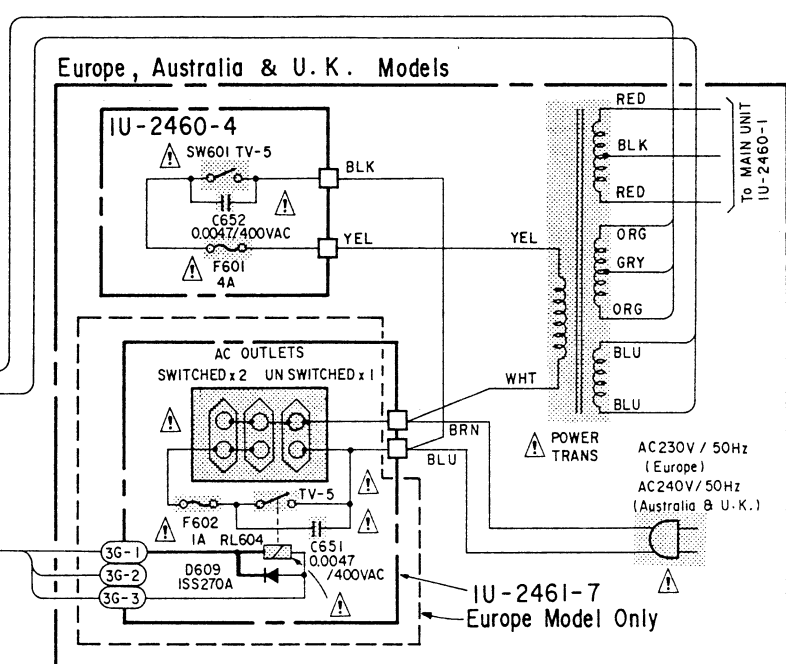
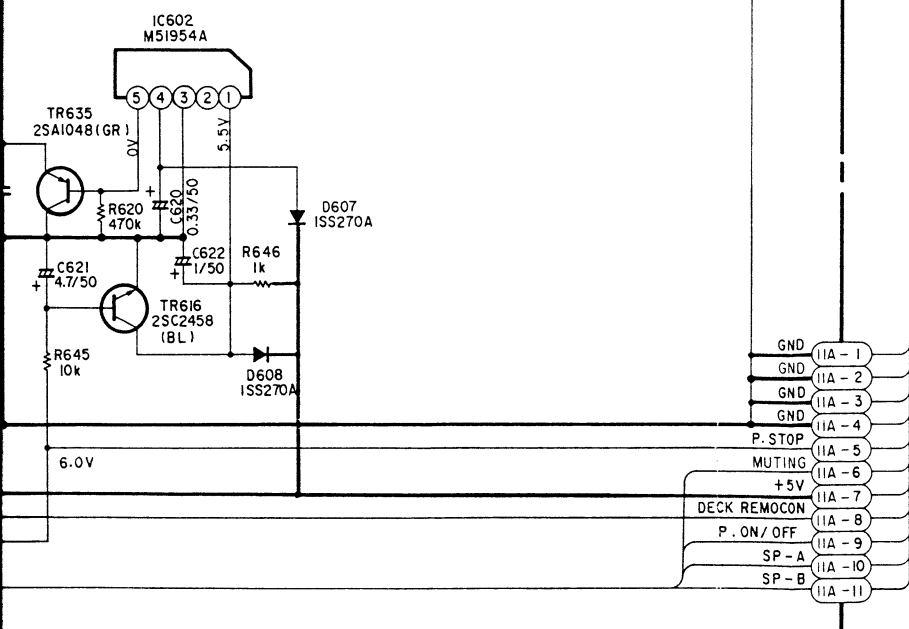
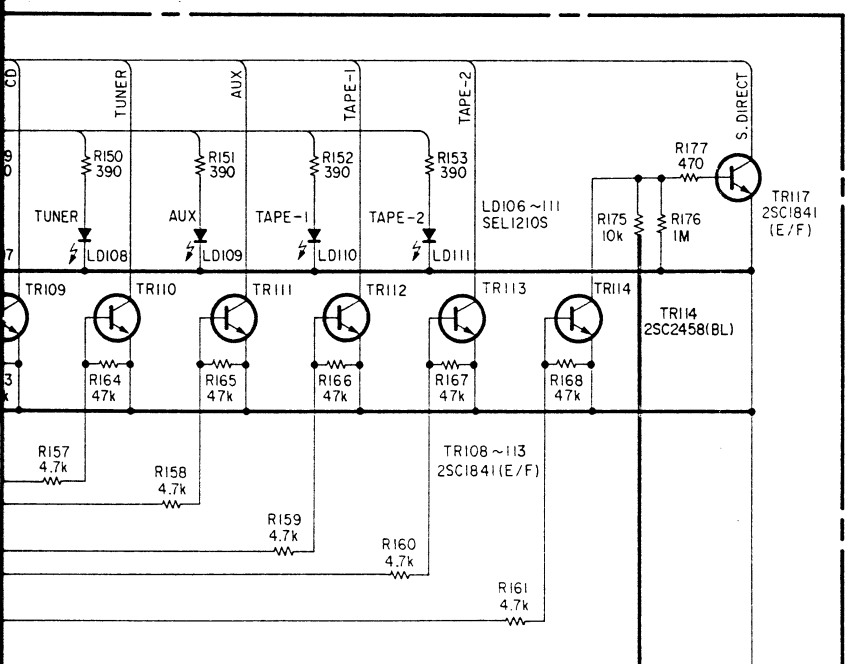
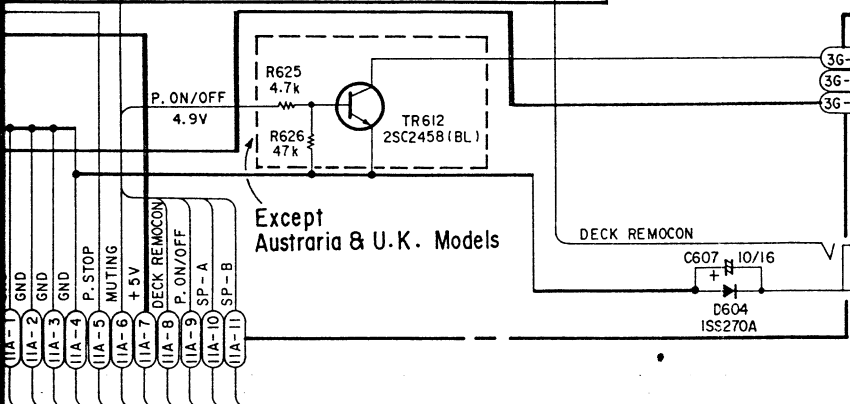
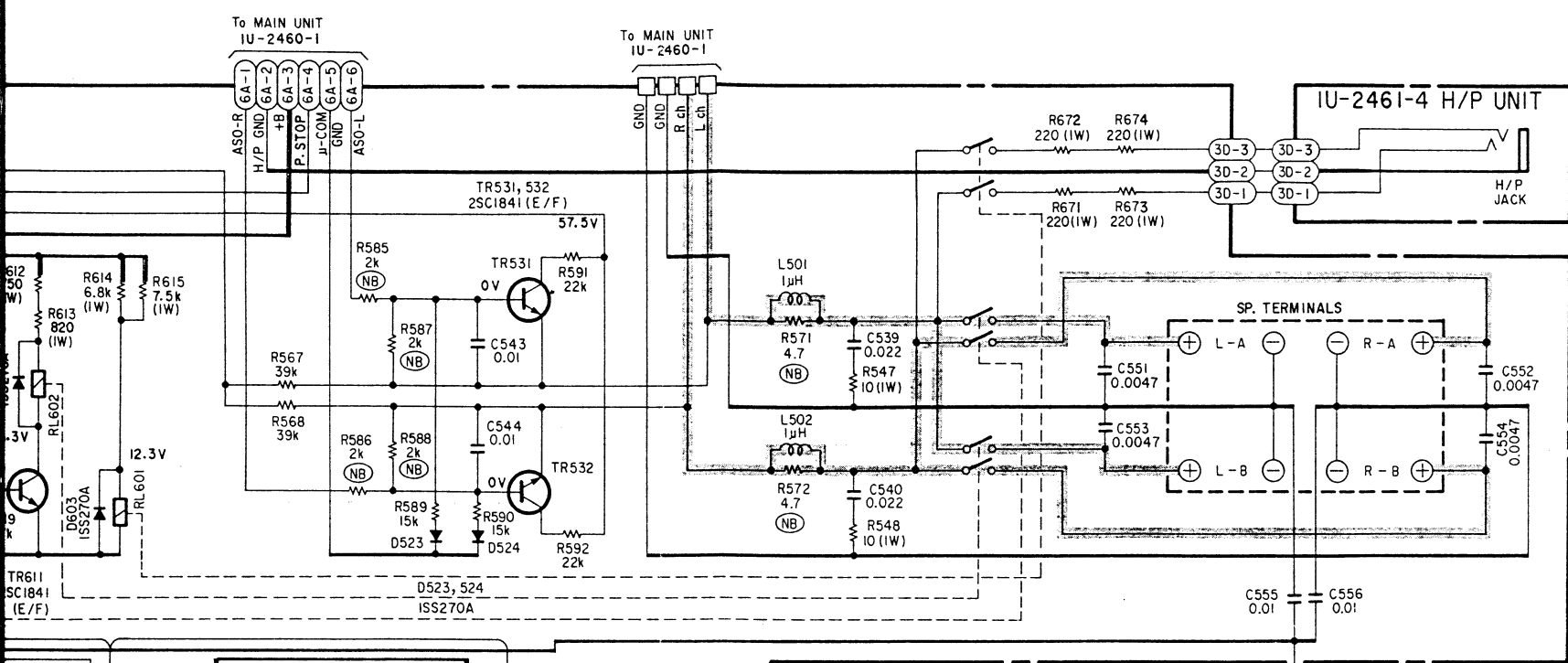
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ALL RESISTANCE VALUES IN OHM. K=1,000 OHM, M=1,000,000 OHM
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WARNING:
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NOTES:
Circuit and parts are subject to change without prior notice.



NOTE :

————— +B LINE
- - - - - -B LINE
SIGNAL LINE

leakage current check or (2) a line to chassis resistance check. If either side of the power cord is less than 240 kohms, the unit is

ected.